

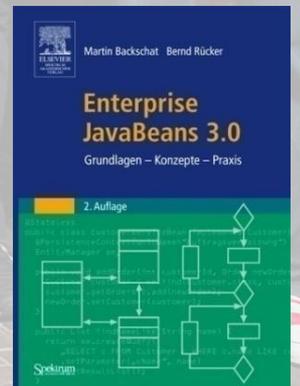


Activiti

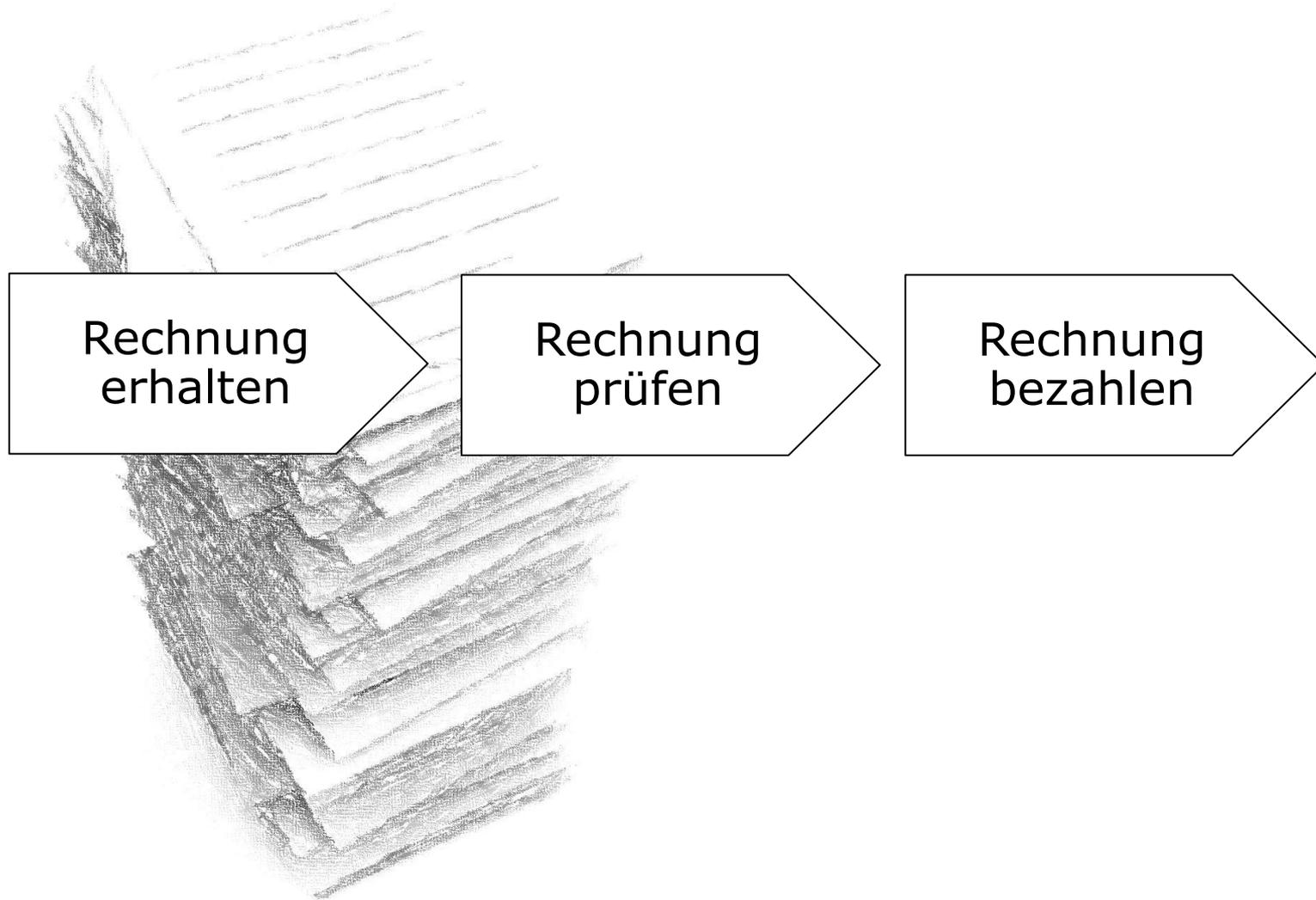
Die "Less-Code"-BPM-Plattform
für Software-Entwickler
bernd.ruecker@camunda.com



OBJECT MANAGEMENT GROUP



Beispiel heute: Rechnungseingang

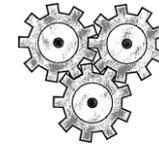


Gesamtprozess „Rechnungseingang“

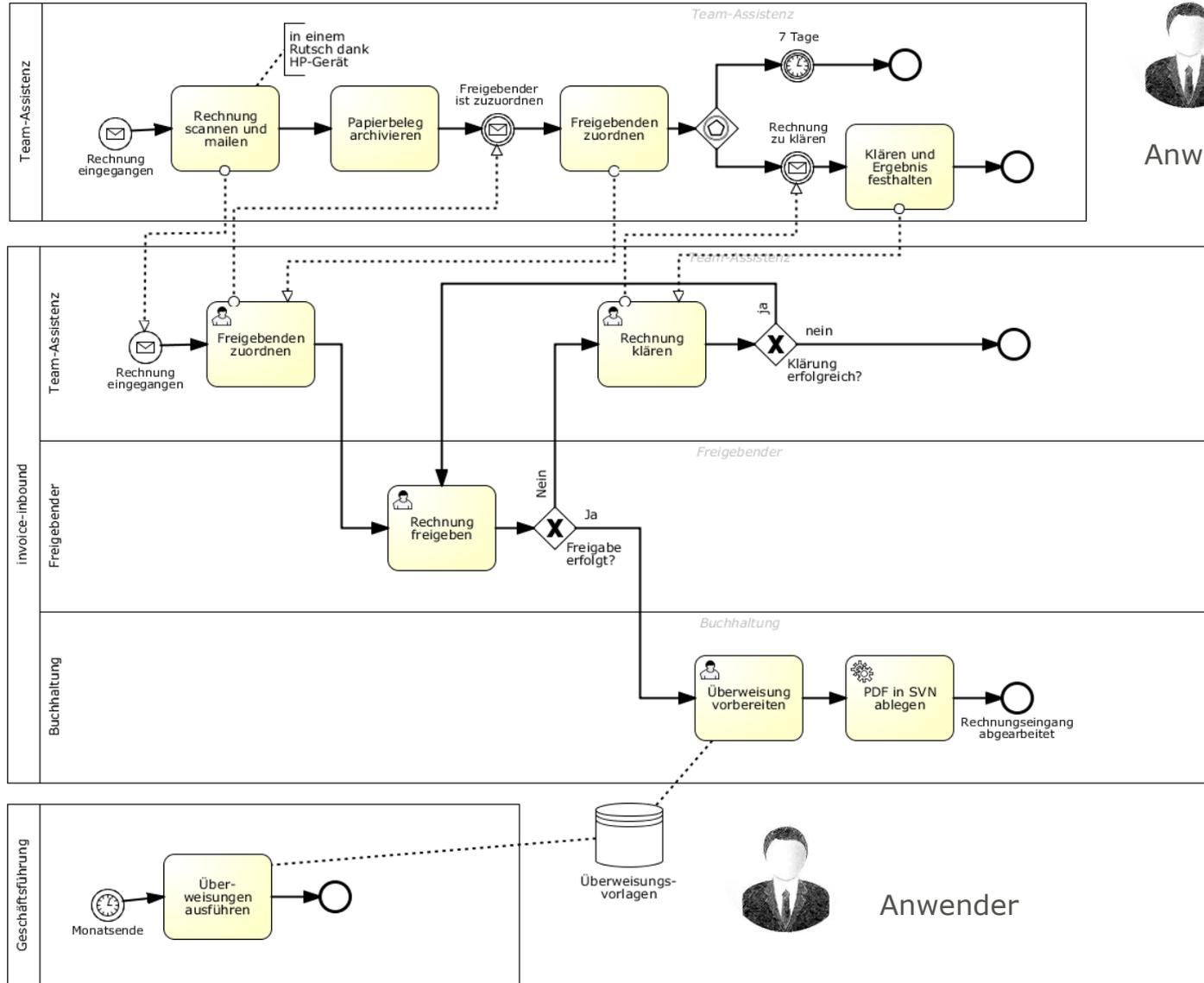
Methodik:



Anwender

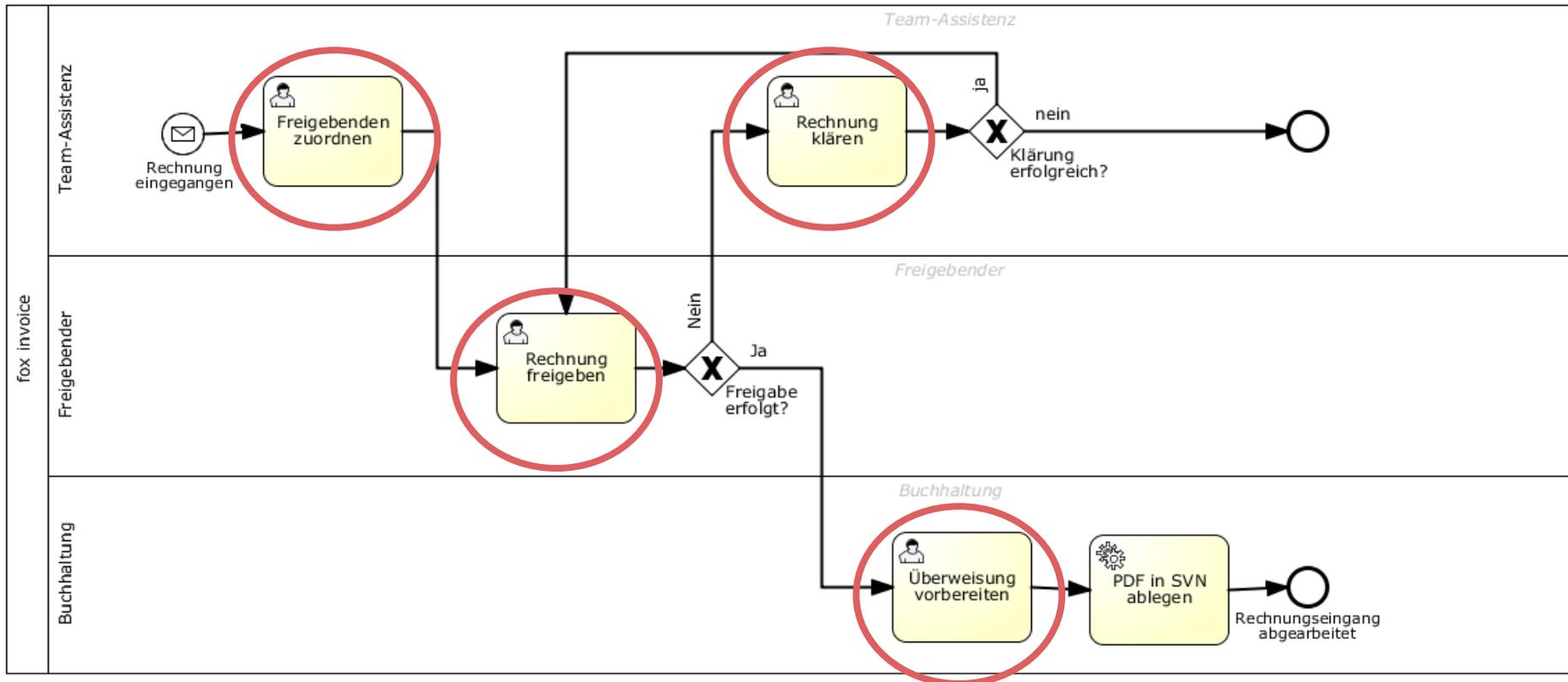


Technischer Prozess

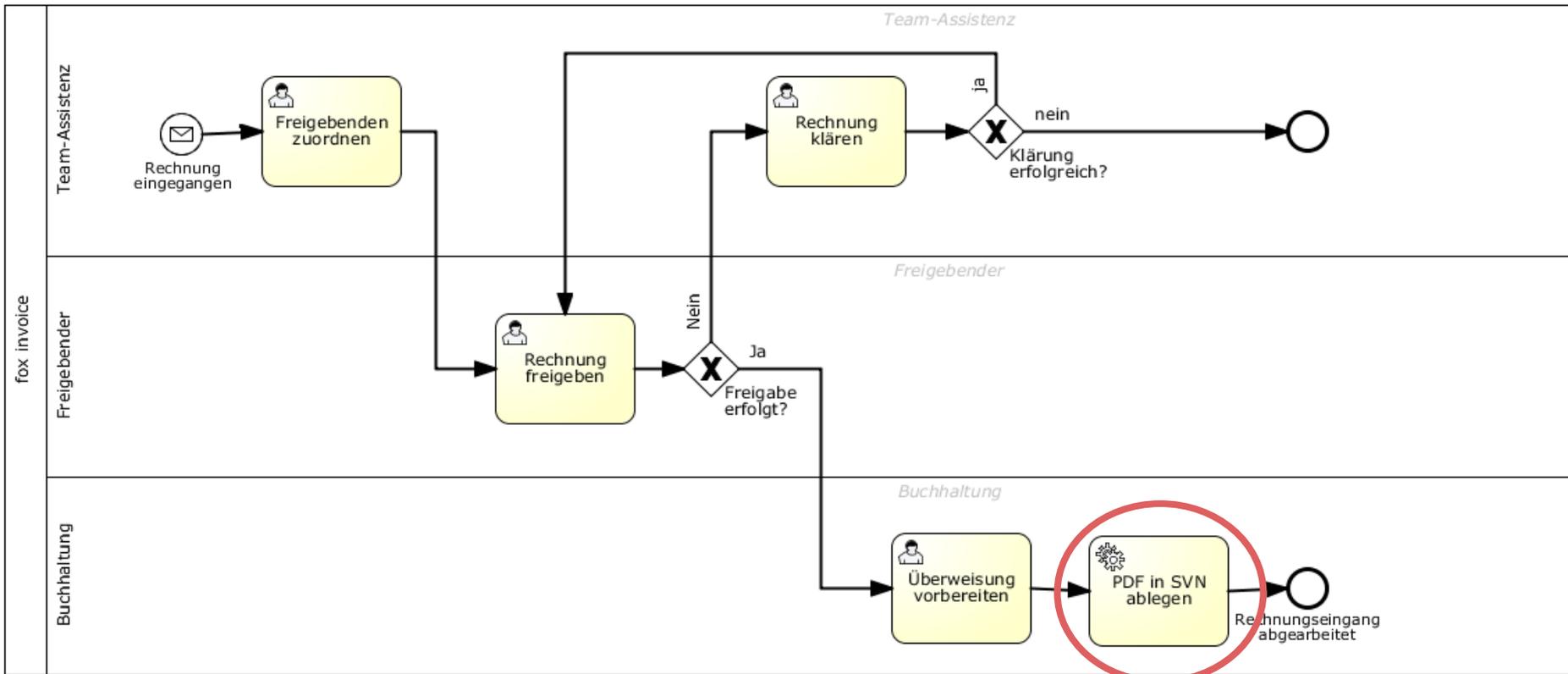


Anwender

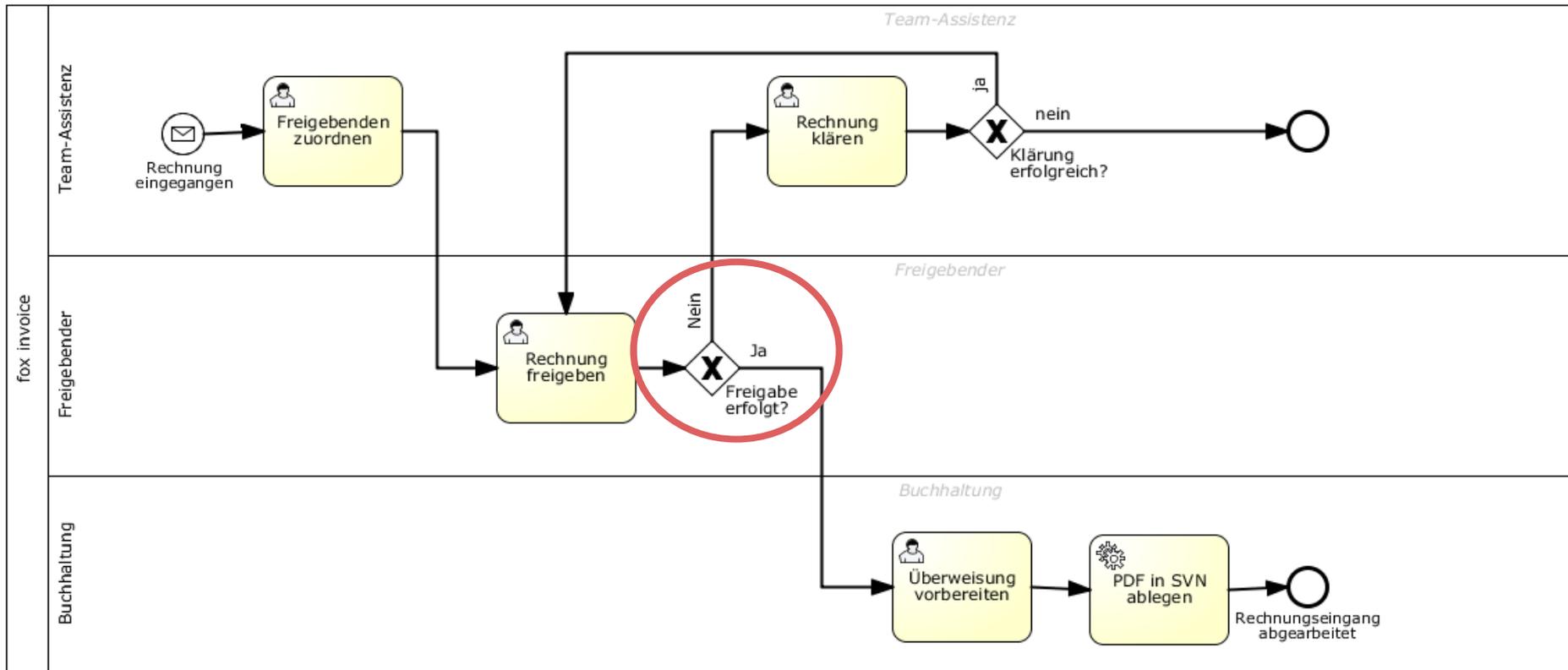
Zuweisung von Aufgaben



Integration mit Archiv-System



Steuerung des Vorgangs



Showcases verfügbar

Types+and+catalog+of+examples



Google



Dashboard > fox user guide > ... > Types and catalog of examples

Browse > Bernd Ruecker > Search Confluence

Search

- Introduction
- Installation and Administration
- Components
- Create and Run Process Applications
- Examples and Tutorials
 - Types and catalog of examples
 - Download and run examples
 - Showcases
 - Outer Space Demos
 - Tutorials
- FAQ and Miscellaneous
- Meta

Catalog

Showcases

Stable and maintained fox showcases, tested and ready for production.

www.camunda.com/fox/documentation/

| Showcase name | In a nutshell | Language | JPA | EJB | CDI | JMS | REST | WS | SOA | JSF | Alternative UI | Additional components |
|--|---|------------|-----|-----|-----|-----|------|----|-----|-----|---|-----------------------|
| Twitter | Showcase with easy process and simple technology, demonstrates to access Twitter from within a Process. | Java | | | | | | | | | Activiti Explorer and Activiti Task Form Properties | |
| Invoice | Shows the invoice inbound process of camunda as a good beginners showcase. | Java / PHP | | | ✓ | | | | | ✓ | JSF & JQuery | |
| UI Mediator | Shows page-flow vs. process-flow and how to map asynchronous process to synchronous behavior in the fronted user interface. | Java | ✓ | ✓ | ✓ | ✓ | | | | ✓ | UI Mediator to sync between Page-Flow and | |
| Versicherungsantrag (Insurance application) | Shows a simple Java EE 6 process included. JavaMag for this showcase. | Java | | | | | | | | | | |

Quickstarts

For the overview of our quickstarts please have a look at:

- Stable Quickstarts: <https://bitbucket.org/camunda/quickstarts>
- Quickstarts in incubation: <https://bitbucket.org/camunda/quickstarts-incubation>

An introduction into each quickstart is given in a real world scenario.

Outer Space Demos

Unmaintained outer space demos, see [Types and catalog of examples](#)

| Showcase name | In a nutshell |
|---|--|
| Open Bank Account Process | Shows a bank account opening process triggered by files using Apache Karaf (OSGI) environment. |
| Spring in fox platform | Technical showcase demonstrating how to deploy Spring Applications using the fox platform engine via Spring in the fox platform. |

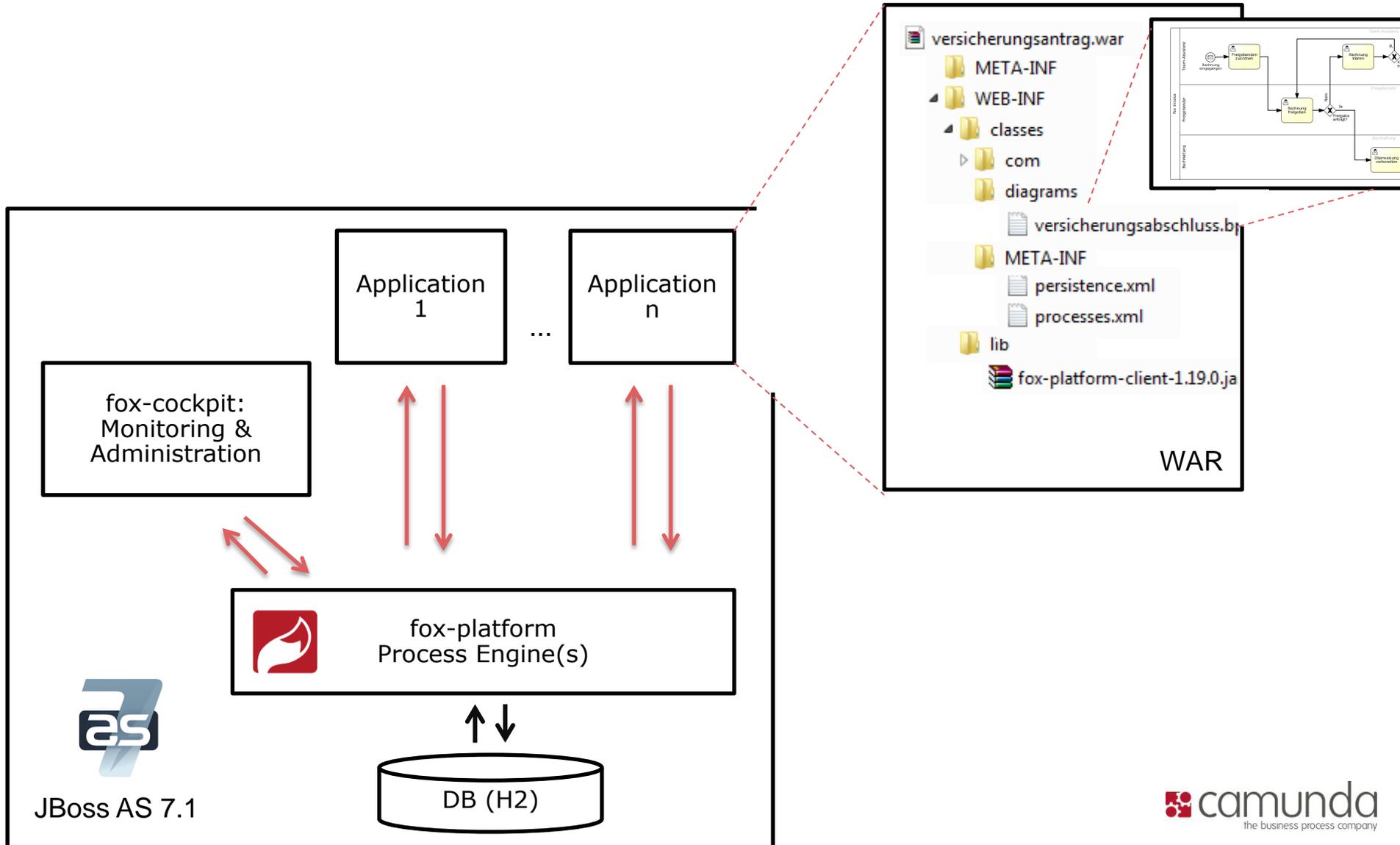
Java magazin

Wie man Workflows mit Activiti als Open Source Process Engine leichtgewichtig in die Java-Welt bringt

Standards im Duett: BPMN 2.0 und Java EE 6

Bisher ist uns als Entwickler das Thema BPM allzu oft unter zwei Gesichtspunkten begegnet: Einerseits gab es da das High-Level-PowerPoint-Heile-Welt-BPM auf Businessesebene. Andererseits waren die BPM-Plattformen, mit denen wir uns dann am Ende des Tages abquälen, unflexibel und unhandlich. Aber BPM geht auch anders. Wir zeigen im Folgenden, wie sich mit der Open Source Process Engine Activiti einfache Workflows in Java EE 6 umsetzen lassen, mit großem Spaßfaktor bei der Entwicklung und dank BPMN 2.0 trotzdem „Business-aligned“.

Unsere Umgebung heute: fox-platform auf JBoss 7.1

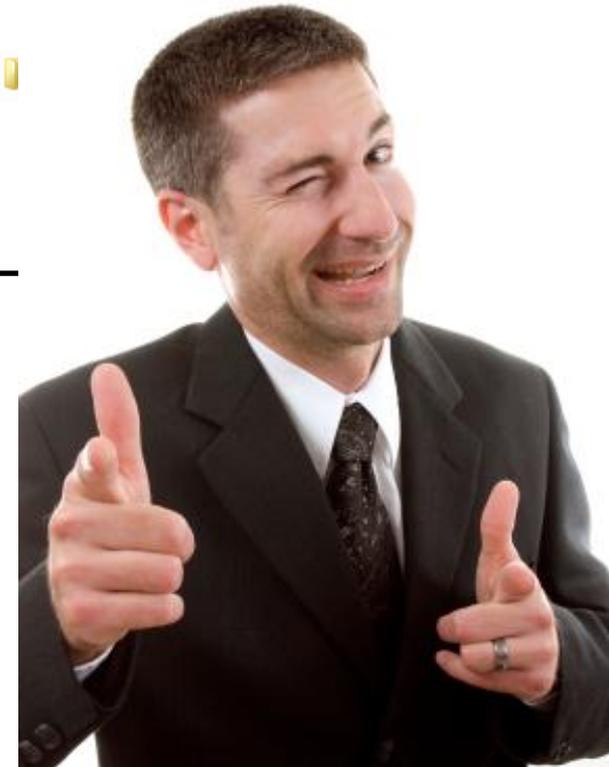
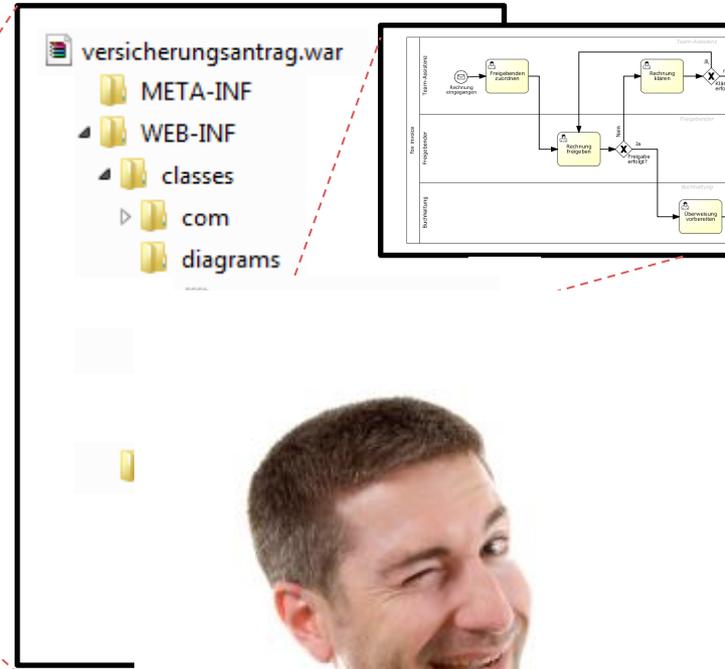
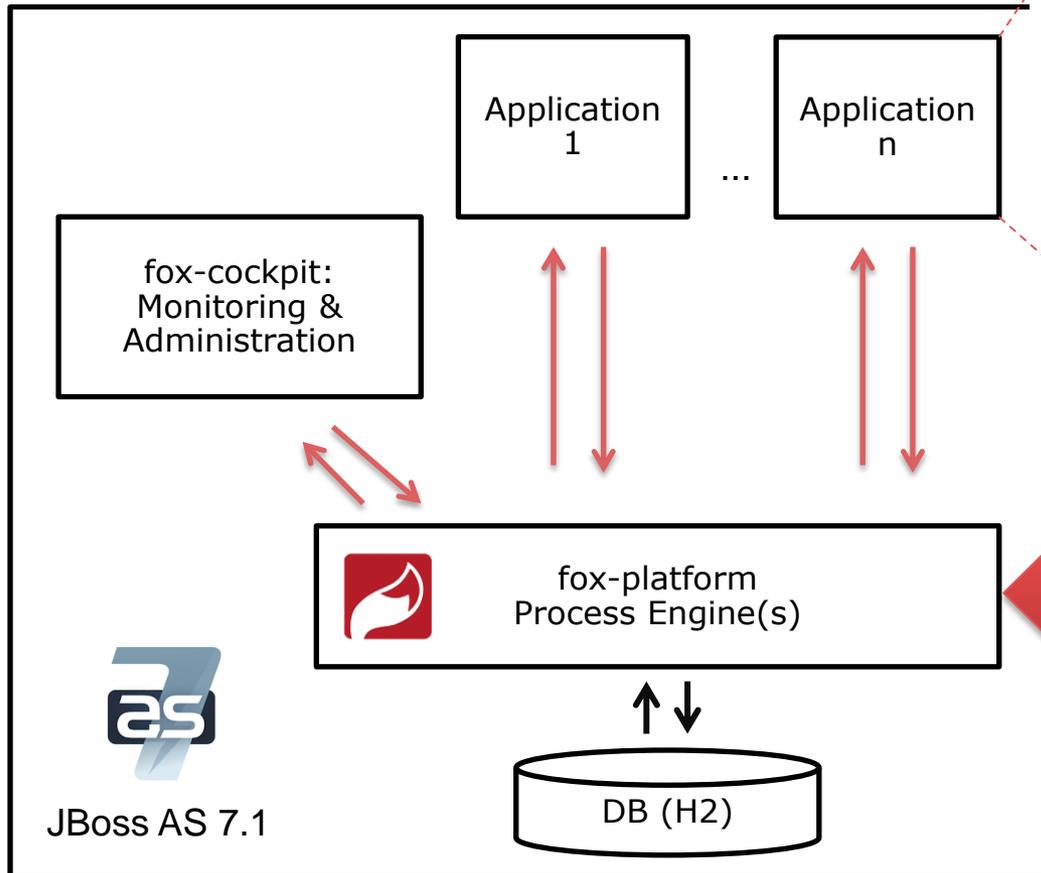


Demo

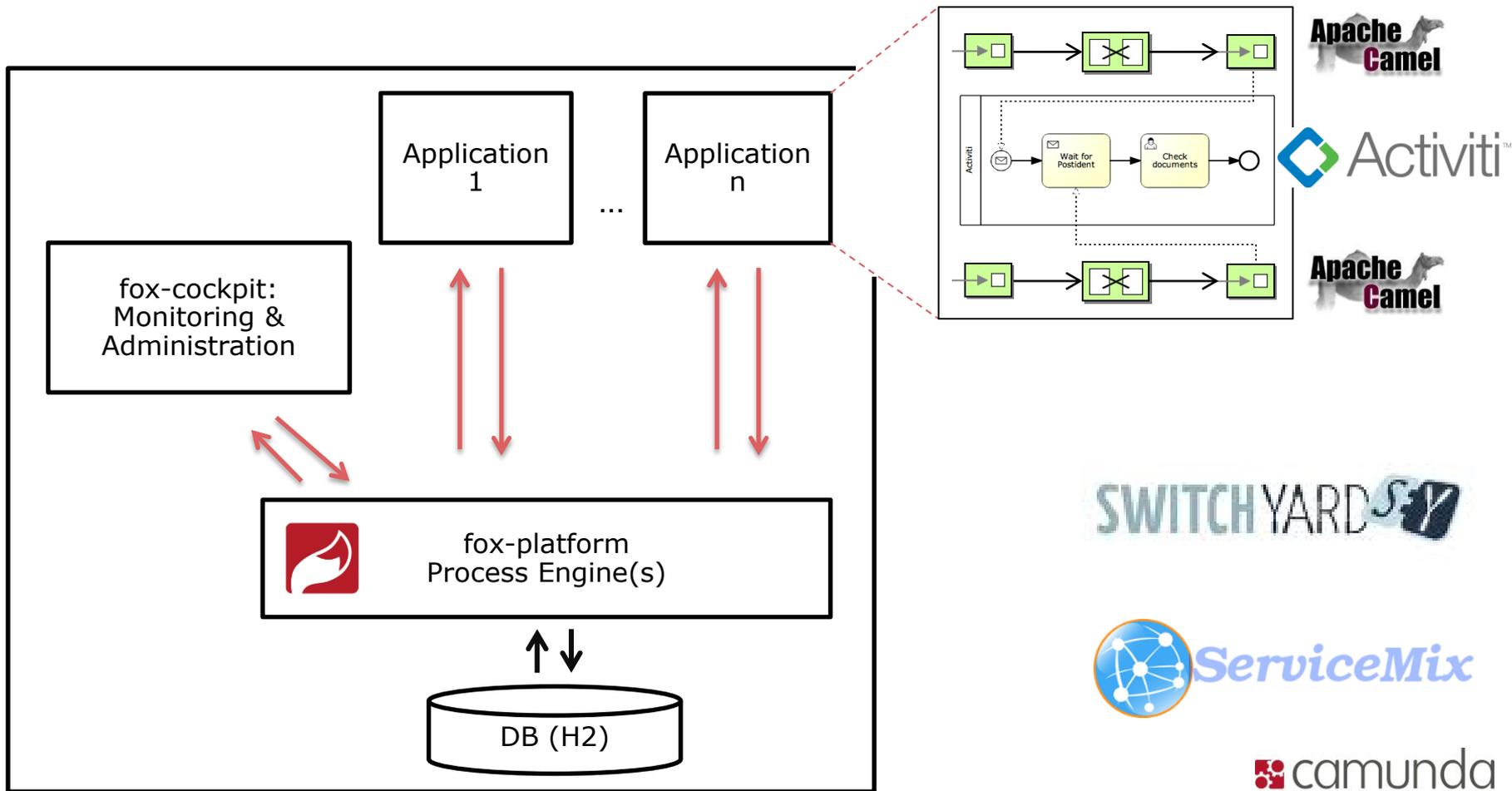
- Wie tickt eine Process Engine?
- Unser erster BPMN 2.0 Prozess
- Java EE 6 + Activiti im Zusammenspiel (JSF + CDI)



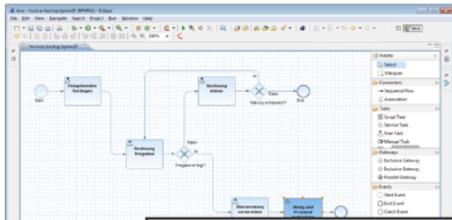
Nicht den Clou verpassen!



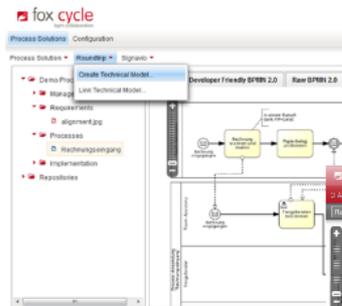
Und SOA? Ein anderes Beispiel...



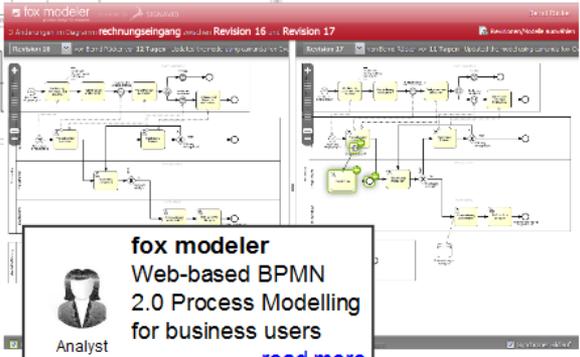
Schulterschluss mit der Fachabteilung nicht vergessen!



 **fox designer**
BPMN 2.0 Process
Modelling in your
Eclipse IDE [read more](#)



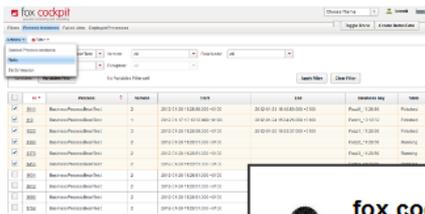
 **fox cycle**
BPMN Roundtrip
[read more](#)



 **fox modeler**
Web-based BPMN
2.0 Process Modelling
for business users
[read more](#)

fox platform
Run BPMN 2.0 in Java EE 6
Application Servers
[read more](#)

 **fox engine**
BPMN 2.0
Process Engine
[read more](#)



 **fox cockpit**
Process Monitoring
and Controlling
[read more](#)

Infos und Demo
gerne bei uns am
Stand!

Verwirrt?

Activiti

Alfresco

camunda
fox

App Server
Integration?



Die Komponenten im Überblick



fox-cockpit

fo

fox-platform
community

fox-platform
enterprise

fox-engine



SLA-based Enterprise Support

Branch

Activiti



Activiti
Designer

Activiti
Explorer

Alfresco
ECM

Eclipse
BPMN 2
Modeler



eclipse

Signavio
Process
Editor



Kommerziell

OSS

Activiti und camunda fox im Vergleich

| | | Activiti | camunda fox community | camunda fox enterprise |
|-------------------|--|----------------|-----------------------|------------------------|
| Software Features | BPMN 2.0 Process Engine | ✓ | ✓ | ✓ |
| | Integration in JBoss AS 7 Community Edition | ✗ | ✓ | ✓ |
| | Integration in Java EE 6 Application Server ¹ | ✗ | ✗ | ✓ |
| | Monitoring und Administration | ✗ | ✗ | ✓ |
| | Technische Modellierung | ⚠ ² | ⚠ ² | ✓ |
| | Fachliche Modellierung | ✗ | ✗ | ✓ |
| | BPMN 2.0 - Roundtrip | ✗ | ✗ | ✓ |
| Services | Qualitätssicherung und Stabilisierung | ✗ | ✗ | ✓ |
| | Support | ✗ | ✗ | ✓ |
| | Wartung | ✗ | ✗ | ✓ |
| | Haftungsfreistellung | ✗ | ✗ | ✓ |

¹ Integration der Plattform in JBoss AS 7/EAP 6, WebSphere AS 8, Glassfish 3, WebLogic 12.

² Activiti Eclipse-Plug-In mit eingeschränkter BPMN 2.0 Unterstützung.

make meaning
right something wrong



Modelling

Moni

WRONG

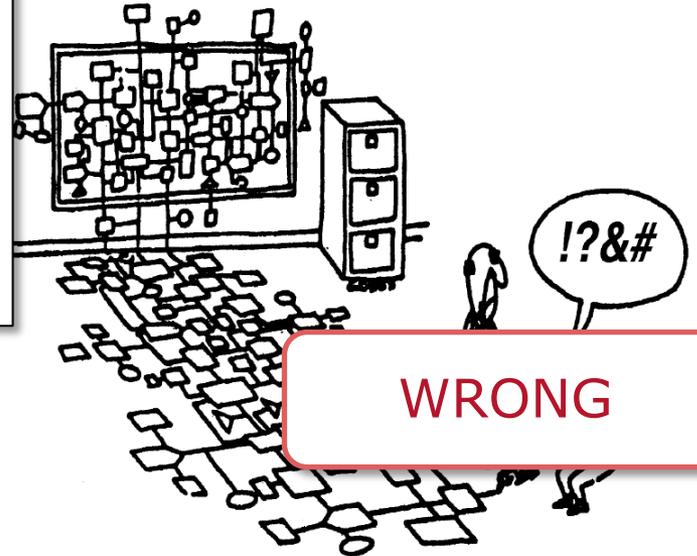
Business
IT



Human Workflow

Magic Process Engine

EAI / SOA



camunda fox Vision



BPM + Java

Best of breed – basierend auf Standards



You name it!

Beliebige Komponenten aus dem (Java) Kosmos.

camunda fox

Prozessautomatisierung,
Monitoring, Operations, ...

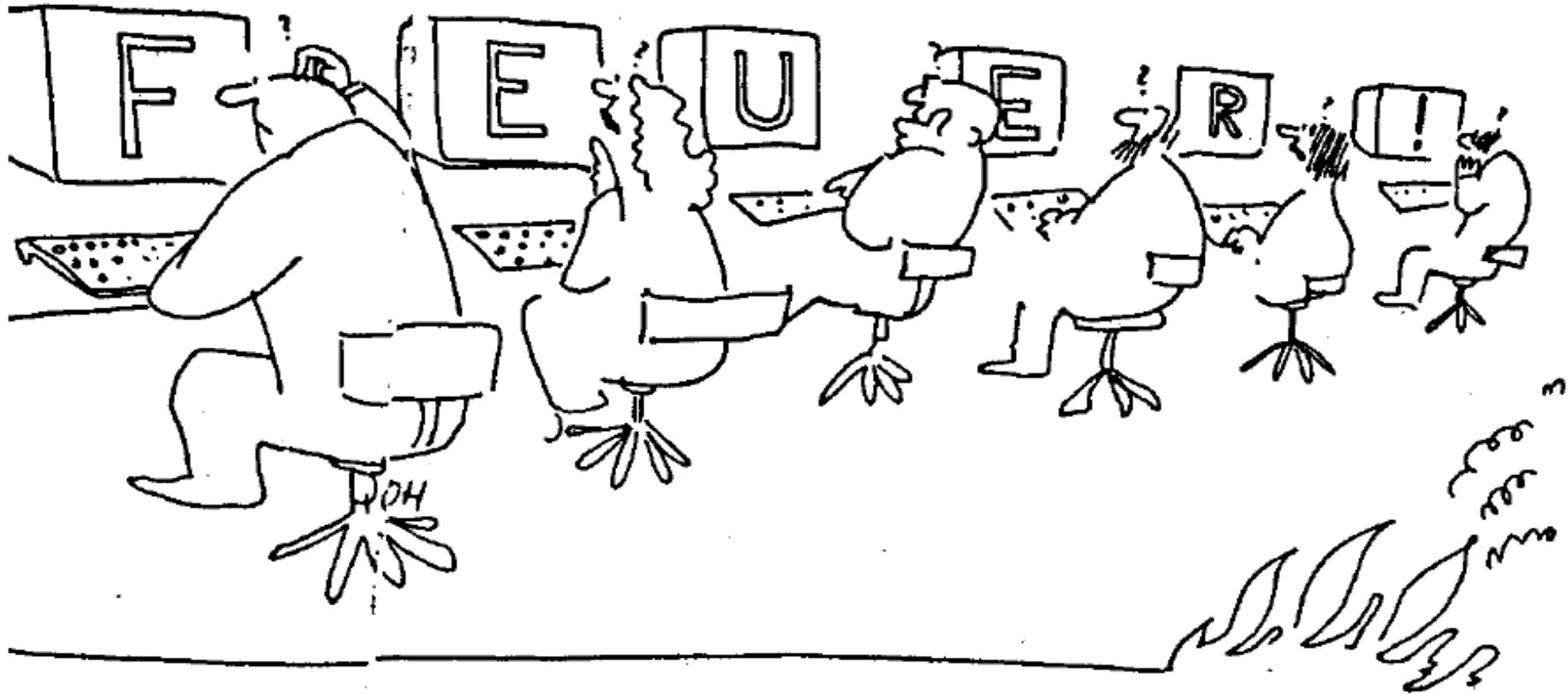
Java EE 6

Persistenz (JPA), Transaktionen (JTA, EJB3), Clustering, Connectivity (JAX-WS, JAX-RS, JAX-B), UI (JSF), ...

BPMN 2.0

Prozessmodellierung,
fachliche Abstimmung,
Roundtrip, ...

Denn BPM kann uns wirklich helfen!



Exemplarische Einsatzszenarien



- IT-Dienstleister der Industrie- und Handelskammern
- EVA-Fallmanagement für IHKs
- Schwerpunkt auf Adhoc + Strukturiert
- Integration mit DMS / Automatische Archivierung
- Rechtssicherheit dank protokollierter Abläufe
- Oberflächensteuerung: Zum Prozess die passende Maske
- Mandantenfähigkeit



- Startup zur Durchsetzung von Fluggastrechten
- Technische Abbildung eines innovativen Geschäftsmodells
- Umsetzung des end-to-end-Prozesses in camunda fox
- Kombination von Prozess- und Case Management
- Nahtlose Einbettung in Java EE 6 - Architektur
- Business-IT-Alignment dank Roundtrip mit BPMN 2.0
- Agiles Projektvorgehen für kurze time to market



- Telekommunikationsdienstleister
- Abwicklung unterschiedlicher Bereitstellungsprozesse
- Umfangreiche Service Orchestrierung
- Messung von KPI
- Business-IT-Alignment mit BPMN-Roundtrip

BPM zieht sich durch alle Branchen...

| | |
|---------------------|---|
| Banken/FDL | DAB, ING-DiBa, Sparda, Wüstenrot |
| Chemie | Eurofins |
| Energie | Energie Südbayern, Stadtwerke Ulm |
| Gesundheit | Hevert, Versandapotheke DocMorris, InterComponentWare |
| Handel | Versandhaus Bader |
| Industrie | Brückner |
| IT | BIGPOINT, Centric, Collibra, Computacenter, CKC, Dexea, GfI-IHK, GuruYu, ISR, Itartis, Marabu, MATERNA, Novatec, Opitz Consulting, Porsche Informatik, Profit Bricks, reutax, Six Group, T-Systems MMS, USU, VPS ID-Systeme |
| Medien | Deutscher Sparkassenverlag, Haufe-Lexware, Schlütersche |
| Öffentlicher Dienst | Bayerisches Landesamt für Statistik und Datenverarbeitung, Landesamt für zentrale Aufgaben und Technik der Polizei, Brand- und Katastrophenschutz Mecklenburg, Bundesfinanzministerium |
| Telekommunikation | 1&1, Freenet |
| Textil | Hugo Boss |
| Versicherungen | AdmiralDirekt, ASC, Barmer GEK, Debeka, IKK BaWü und Hessen, IVV, Haftpflichtkasse Darmstadt, Schweizer Mobiliar |

Nächste Schritte

Trainingstermine online:
www.camunda.com/activiti/

- Evaluieren:
 - Kostenlose Testversion oder Community Edition + Getting Started Guide
 - Testen mit Support (Evaluierungspaket)
 - Kompakt-Workshops
 - Unterstützter Proof of Concept (PoC)
- Projektumsetzung / Einführung der Plattform:
 - Schulungen etc.
 - Generell Professional Services
 - Umfangreiche Kapazitäten über Partner

Selbst loslegen!

Neuste Infos abonnieren:
www.bpm-guide.de

Dokumentation:
www.camunda.com/fox/documentation



BPMGuide

It's Business Process Management

HOME

BPM

BPMN

ACTIVITI

OPEN SOURCE BPM

AUTOREN

camunda fox 6.0 released

01. Juni 2012 von [Bernd Rucker](#) - [Kommentar verfassen](#)



camunda fox = BPM + Java

Wir schreiben den 01.06.2012 und es ist soweit: Wir haben die Version **camunda fox BPM platform** released. camunda fox enthält die Open Process Engine **Activiti**, erweitert sie um wichtige Komponenten und durch zusätzliche Stabilisierung & Qualitätssicherung sowie einen Support basierten Support fit für den Enterprise Einsatz.



WILLKOMMEN

BERATUNG & TRAINING

FOX BPM-PLATTFORM

UNTERNEHMEN

[Home](#) > [fox BPM-Plattform](#) > Dokumentation und Getting Started

Documentation and Getting Started

Documentation

Further information can be found in the [camunda fox user guide](#).

Getting Started

Please follow the [Getting Started Step by Step Tutorial](#), including all necessary download links and showcase references.

Ihre An

Gern be
zu unse

Jetzt

Überblick

- Warum
- Aufbau
- ca
- ca
- ca
- Activiti

Mehr BPMN 2.0 gefällig? Poster nicht vergessen...

BPMN 2.0 - Business Process Model and Notation

<http://bpmb.de/poster>

Activities

- Task**: A Task is a unit of work, the job to be performed. When marked with a symbol it indicates a Sub-Process, an activity that can be refined.
- Transaction**: A Transaction is a set of activities that logically follow a specified transaction protocol.
- Event Sub-Process**: An Event Sub-Process is placed into a Process or Sub-Process. It is activated when its start event gets triggered and can interrupt the higher level process context or run in parallel (non-interrupting) depending on the start event.
- Call Activity**: A Call Activity is a wrapper for a globally defined Sub-Process or Task that is reused in the current process.

Activity Markers

- Sub-Process Marker
- Loop Marker
- Parallel MI Marker
- Sequential MI Marker
- Ad Hoc Marker
- Compensation Marker

Task Types

- Send Task
- Receive Task
- User Task
- Manual Task
- Business Rule Task
- Service Task
- Script Task

- Sequence Flow**: defines the execution order of activities.
- Default Flow**: is the default branch to be chosen if all other conditions evaluate to false.
- Conditional Flow**: has a condition assigned that defines whether or not the flow is used.

Gateways

- Exclusive Gateway**: When splitting, it routes the sequence flow to exactly one of the outgoing branches. When merging, it waits one incoming branch to complete before triggering the outgoing flow.
- Event-based Gateway**: Is always followed by catching events or receive tasks. Sequence flow is routed to the subsequent event/task which happens first.
- Parallel Gateway**: When used to split the sequence flow, all outgoing branches are activated simultaneously. When merging parallel branches it waits for all incoming branches to complete before triggering the outgoing flow.
- Inclusive Gateway**: When splitting, one or more branches are activated. All active incoming branches must complete before merging.
- Complex Gateway**: Complex merging and branching behavior that is not captured by other gateways.
- Exclusive Event-based Gateway (Instantiated)**: Each occurrence of a subsequent event starts a new process instance.
- Parallel Event-based Gateway (Instantiated)**: The occurrence of all subsequent events starts a new process instance.

Conversations

- A Communication defines a set of logically related message exchanges. When marked with a symbol it indicates a Sub-Conversation, a compound conversation element.
- A Conversation Link connects Communications and Participants.
- A Forked Conversation Link connects Communications and multiple Participants.

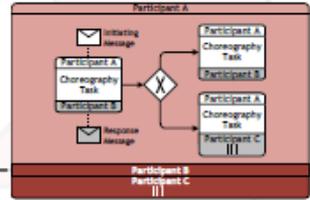
Conversation Diagram



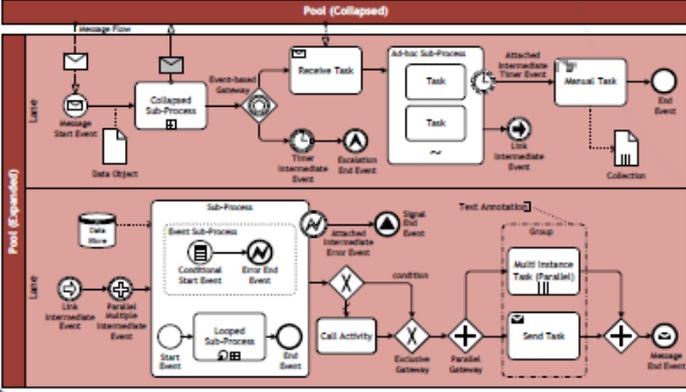
Choreographies

- A Choreography Task represents an Interaction (Message Exchange) between two Participants.
- Multiple Participants Marker denotes a set of Participants of the same kind.
- A Choreography Sub-Process contains a refined choreography with several interactions.

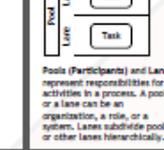
Choreography Diagram



Collaboration Diagram



Swimlanes



Swimlanes

Pools (Participants) and Lanes represent responsibilities for activities in a process. A pool or a lane can be an organization, a role, or a system. Lanes subdivide pools or other lanes hierarchically.

Message Flow symbolizes information flow across organizational boundaries. Message flow can be attached to pools, activities, or message events.

The order of message exchanges can be specified by combining message flow and sequence flow.

Events

| | Top-Level | Start | Intermediate | End |
|--|-----------|-------|--------------|-----|
| None: Unlabeled events, indicate start point, state changes or final state. | | | | |
| Message: Reacting and sending messages. | | | | |
| Timer: Cyclic timer events, points in time, time spans or timeouts. | | | | |
| Escalation: Escalating to an higher level of responsibility. | | | | |
| Conditional: Reacting to changed business conditions or integrating business rules. | | | | |
| Link: Off-page connectors. | | | | |
| Error: Catching or throwing named errors. | | | | |
| Cancel: Reacting to cancelled transactions or triggering cancellation. | | | | |
| Compensation: Handling or triggering compensation. | | | | |
| Signal: Signaling across different processes. A signal thrown can be caught multiple times. | | | | |
| Multiple: Catching one out of a set of events. Throwing all events defined. | | | | |
| Parallel Multiple: Catching all out of a set of parallel events. | | | | |
| Terminate: Triggering the immediate termination of a process. | | | | |

Data

- Data Input:** An external input for the entire process. It can be read by an activity.
- Data Output:** A variable available as result of the entire process.
- Data Object:** Represents information flowing through the process, such as business documents, e-mails, or letters.
- Collection Data Object:** Represents a collection of information, e.g., a list of order items.
- Data Store:** A place where the process can read or write data, e.g., a database or a filing cabinet. It persists beyond the lifetime of the process instance.
- Message:** Used to depict the contents of a communication between two Participants.



Geschafft! Fragen?



Aktuelle Jobs:
<http://www.camunda.com/jobs/>

Vielen Dank!

JFS 2012

Stuttgart, 05.07.2012



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Geschäftsführer
bernd.ruecker@camunda.com



Der Praxis-Blog zu BPM:
www.bpm-guide.de