The UBS Platform based on Eclipse RCP 4 for Mandate Management

Ideas, Concepts & Lessons Learned
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STMP Platform

- Cockpit
- Cockpit
- Jobs
- Jobs
- Domain Frontend
- Domain Backend
- Eclipse
- Other Technologies

STMP Platform
Platform UI Architecture

Layers

Components
Layers

**UI**
- UI binds to the PM or invokes actions on the PM to change its state

**PresentationModel**
- PMs have no references to the UI

- ValueAttribute
- ListAttribute
- Value

**PresentationObject**
- POs represent a unified client-side view of persistable data

- Attribute

**Actions**
- Actions change the internal state of a PM, use Services and operate on POs
- An action might fetch a necessary PO from a service and set it as the origin of various attributes on the PM (establishes the line in red)

**Service**

**Eclipse Databinding**
- write attribute changes
- listen to attribute changes
- collection of child PMs
- change PO structure
- listen to structural changes
- e.g. Might create/remove child PMs from Lists
Core Components

- Change Recorder
- Model Store
- Data Event Bus
Platform UI Implementation

Application Model

Dependency Injection

Pure Eclipse RCP 4.3
Platform Application Model
Using Eclipse RCP 4.3

- New knowhow required
- Developer frustration
- Workarounds necessary
- Missing things from 3.x
- Greater flexibility
- Simpler testing
- New features