

BASEL BERN BRUGG LAUSANNE ZUERICH DUESSELDORF FRANKFURT A.M. FREIBURG I.BR. HAMBURG MUNICH STUTTGART VIENNA



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- Application Development
- Business Intelligence
- Application Performance Management
- Over 20 years experience in using Oracle products







AGENDA

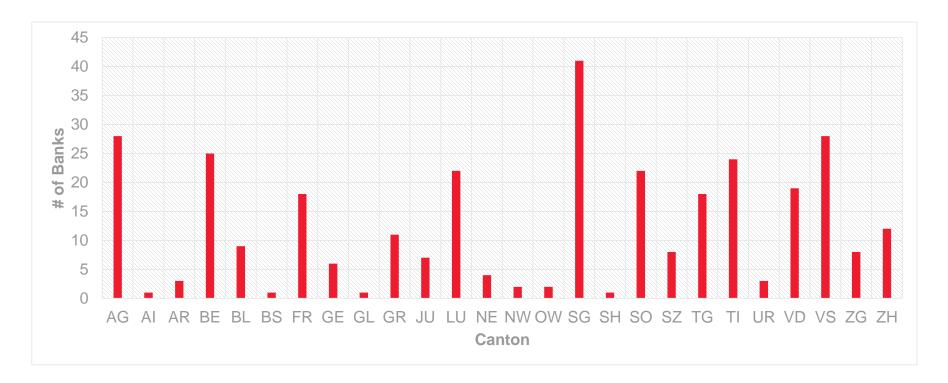
- 1. The Project
- 2. The Classic Solution Approach
- 3. The Model-Driven Solution Approach
- 4. Core Messages



The Project



■ Swiss Raiffeisen Group consists of over 300 Banks



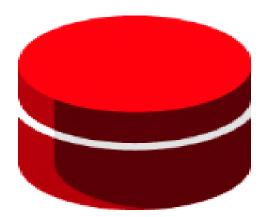


■ Replace "DIALBA 2000" with an Avalog Banking System

- Over 300 decentral "DIALBA 2000" installations
- Individually configured

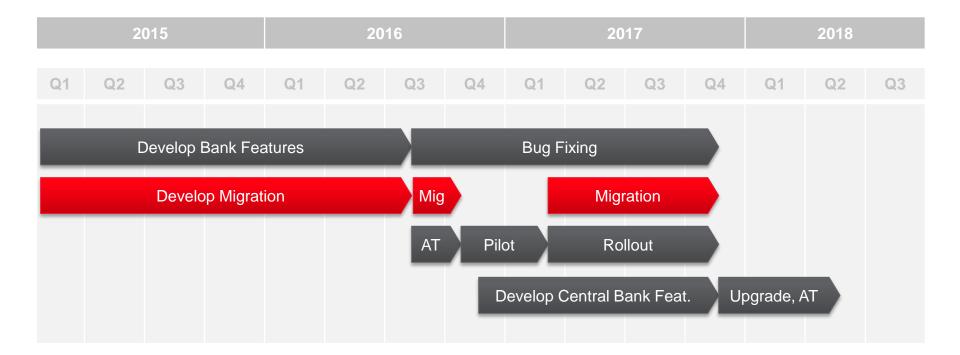


- Central Avalog Banking System
- Banks = Business Units
- Homogenously configured





■ High Level Schedule





The Classic Solution Approach (Migration)

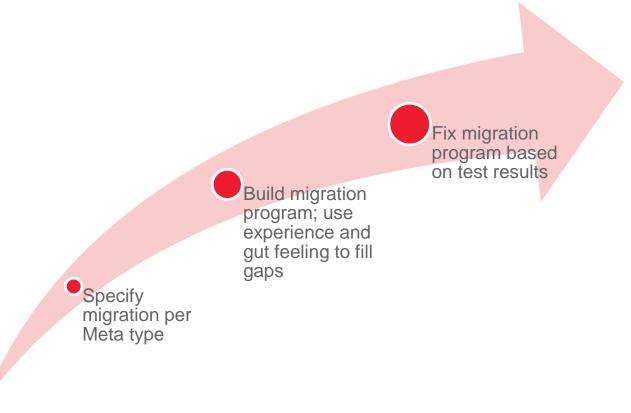


Develop Migration

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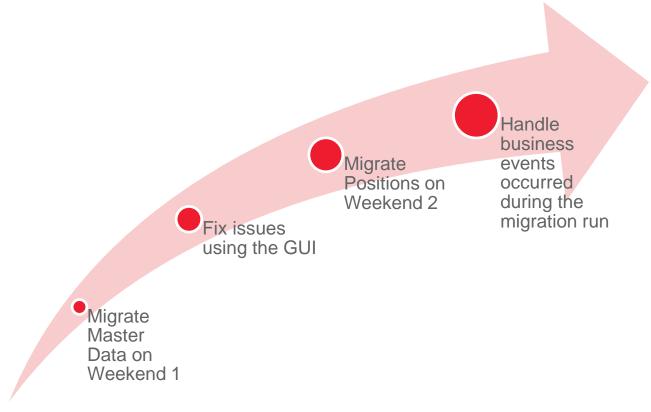
March, 7 2015

TechEvent 01/2015 - Migration Factory





Migrate





Traceability

- Keep Staging Area / snapshot of source systems
- Keep ETL programs
- Keep content of migration tables (input for Avalog migration API)
- Reconciliation reports showing the "same" result on source an target system



The Model-Driven Solution Approach (Migration)



Requirements (1 of 2)

- Migrate one or more banks per migration run
- Distribute the migration of all banks over a longer period
- Fully automated migration runs (no manual interventions required)
- Efficient change of transformation rules (avoid programming efforts)
- Monitor the progress of a migration run end-to-end

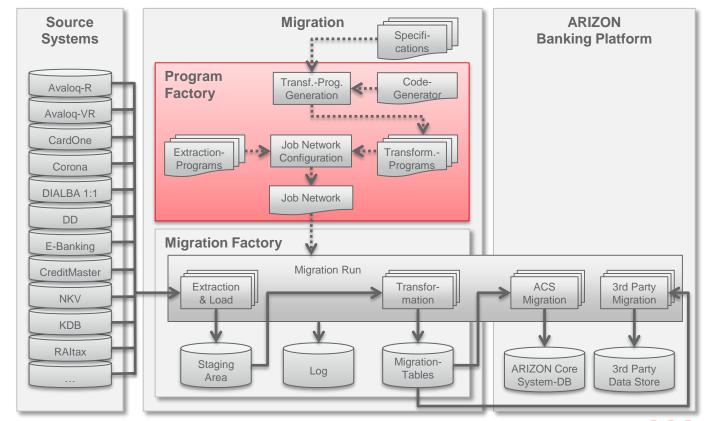


Requirements (2 of 2)

- Trace transformation logic for every migration run per bank and column
- Trace transformation results for every migration run per bank
- Use logging data for reporting purposes
- Report quality problems and not migrated data to fix issues
 - in productive source systems after test migration runs
 - in productive target systems after productive migration runs

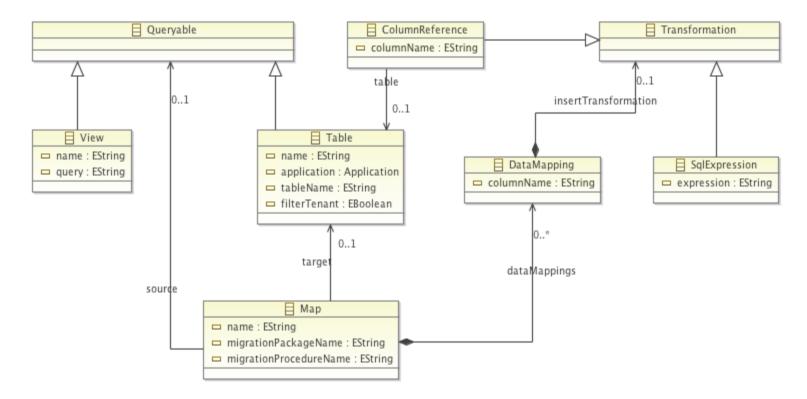


Context





■ UML Model (Simplified Excerpt)





Program Factory Overview

X∄ Specification Converter 100% Generated Xte≍t DSL **%**tend **Templates** Code Generator **%**tend UC4 Code

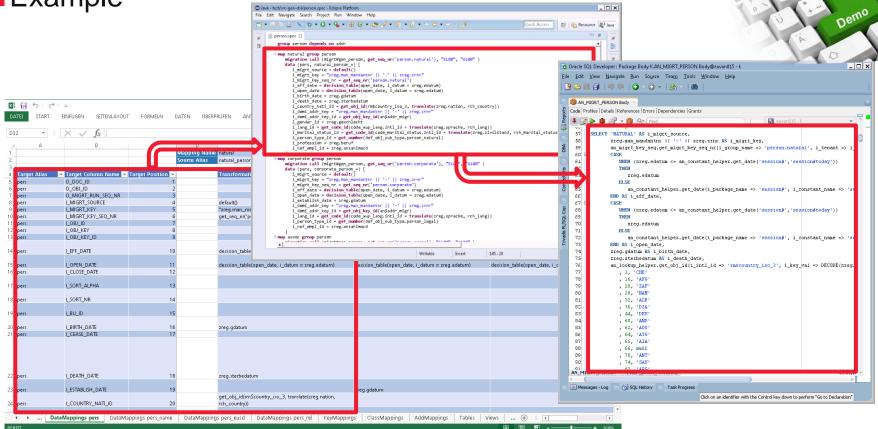
Abstractions-Layer 1

Abstractions-Layer 2

Code-Layer









Pros



- Unbroken chain from specification to implementation
- Reduced to the max (specification contains all essential information)
- Design decisions are implemented in code templates
- Code template changes are immediately applied
- High flexibility and responsiveness
- Good reporting and analysis base
- No cases that could not be solved by this approach
- Approach is applicable for future ACS customers



Cons



- The approach differs from previous Avalog migration projects
- The initial costs are higher compared to the traditional approach
- Does not replace graphical overviews for complex migration paths
- The requirements for business analysts are relatively high
- The handover of Excel specifications might not scale

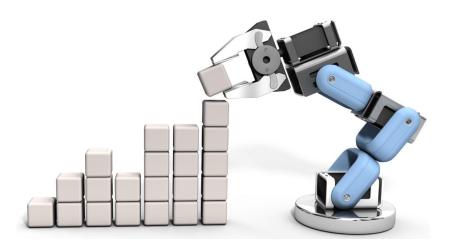


Core Messages



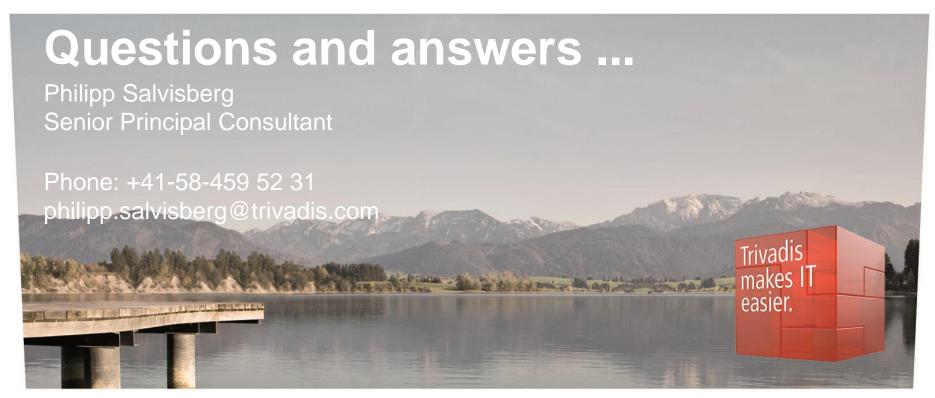
Core Messages





- Eclipse Xtext and Xtend is well suited for model-driven software development
- Arizon decided in favor of the program factory
- No program factory, no Trivadis
- Less human resources for standardized tasks required
- Model-driven software development is an opportunity





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