ALLINWEB AG

Know to act... Act to win

Avaloq Test Automation Framework Solution
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Meeting Objective

The objective of this presentation is to show

**ATF – Allinweb Test Framework**

a Test Automation Framework made by Allinweb AG using HP automated software testing suite (ALM, BPT, UFT), to build, store and execute test cases (individual or bulk) on Avaloq Smart Client (version 3.6 and later, based on Microsoft .NET).
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Allinweb AG is a Swiss consulting and IT services company. Allinweb provides its customers, which belong to both private and public sectors, with highly qualified consulting services concerning:

- Project Management
- Banking Business Consulting
- Organization and Processes
- Test Management
- Risk Management
- IT Governance
- Business Intelligence and Data Warehousing
- Assessment and ERP integration (SAP & SAS)
- Database administration
- Network security

✓ Allinweb was founded in 2004, following the intuition of its partners, who believed in the successful blend among IT professionals and Finance expertise, in such a way to offer cutting-edge integrated solutions to its customers.

✓ Company’s strategy is based on integration among specialized professionals, coming from the best international consulting companies (Accenture, Price Waterhouse Coopers, Capgemini, E&Y, IBM, Oracle, Datamat). Now Allinweb can rely on the skills in ERP implementation, Project Management methods (PRINCE2/PMP), Requirement Analysis, Test Management, Development.

✓ In 2006 Allinweb decided to extend and to reinforce its consulting offer in Financial Services, becoming an Avaloq Implementation Partner Candidate.

✓ Allinweb, with 6 different delivery workstations, is a Test Center of Pearson Vue and an Accredited Training Organization PRINCE2.

✓ In 2008 Allinweb has become a SAS Partner in order to support implementation and maintenance of SAS Modules in banking and industries environments.

✓ In 2009 Allinweb has been recognized as a Certified iPhone Developer Program.

✓ In 2009 Allinweb has developed a home banking platform integrated with iPhone and BB.

✓ In 2012 Allinweb has completed creation of mirror trading forex platform, available on web and on mobile, for retail customers and banking brokers

✓ In 2013 Allinweb decided to develop an internal Test Automation Solution in order to support Avaloq clients during project release upgrade
Allinweb - Offering

Strategy
- Change Management
- Assessment and implementation of new organizational models
- Program Management

Management Consulting
- Project Management and PMO with PRINCE2 & PMP methodology
- Test Management
- Application Functional design
- Applications Functional Assessment and Implementation Roadmap
- Assessment of Processes and BPR

Implementation & Application
- Custom Solutions Implementation
- System Maintenance & Change Management
- System Implementation

Financial Services
- Software Selection

LAB
- Mobile Banking Solutions
- Web Portals
- System Integration
Allinweb - Technical Highlight

Operational Systems
- Windows 9x/NT/2K
- Unix (Aix, Solaris)
- Linux
- iOS

Framework / Suites / Tools
- Avaloq Banking System
- Olympic
- Oracle
  - ODI 10g
  - Warehouse Builder 10gR2
  - Discoverer 9i
  - Form & Reports
  - Applications
- TOAD
- Business Objects 5
- Pearson Vue
- HP Quality Center, ALM, UFT
- MS Visual Studio 2008
- MS SharePoint
- MS Team Foundation Server 2008
- Clearcase
- Harvest
- xCode
- SAS (Enterprise Guide, Data Integration, Management Console, Web Report Studio, Infomap, Multidimensional Data / OLAP)

Languages
- PL/SQL
- Visual Basic
- VBA
- VBScript
- Cobol
- ASP .Net
- Java
- Java Swing
- J2EE
- NetBeans
- Apache Struct 2.0
- Jbuilder Borland
- HTML
- C# in ambiente .Net
- ObjectiveC
- Cobol
- Joomla 1.5
- Unix shell
- SAS Base, SAS Macro

Database
- Oracle 9i, 10g, 11g
- MS Access
- SQL Server 6
- Natural/Adabas
High know-how in Bank Market

- Financial Services - Banking: 50%
- Financial Services - Insurance: 15%
- Project Management: 10%
- Allinweb Lab: 10%
- BPM/BI: 15%
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Currently employing over 580 people, the Avaloq group is one of the leading developer of banking software in Switzerland. More than 65 banks put their trust in the Avaloq Banking System. The customer-oriented approach, warranted by Avaloq Community collaboration, ensures that product is available at the time you expect it and that it meets high quality standards. The Avaloq Banking System replaces existing IT systems and incorporates them into a universal banking platform with a modular structure, covering all banking processes and functionalities. To achieve this, Avaloq draw on many years of banking experience.

**Strategy**

“We want to keep growing. We are going to build on our excellence in private banking while expanding specifically in the retail and universal banking market. We will also expand internationally. Avaloq primary objective remains the constant improvement of the product and continuing expansion of the range of services we offer. We see ourselves as a stimulating factor in the banking sector and strategic partnerships will continue to play an important part to achieve this.”
Avaloq - A Selection of Customers
Allinweb Test Framework Functional Coverage

Avaloq Model Banking 3.6: Front Office Module

- Cash Operations: 60%
- Cash Management: 20%
- Portfolio Management: 60%
- CRM: 40%
- Central Registry: 80%
Allinweb Test Framework Functional Coverage

Avaloq Model Banking 3.6: Fundamentals

- Accounting: 80%
- Costs & Fees: 70%
- Limit Management: 65%
- Regularity Reporting: 55%
- Central Services: 60%
- Security Management: 60%
- User Management: 40%
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Allinweb Solution Objective

The objective of the Allinweb Test Automation Framework is to support Avaloq customers in the test phases of Avaloq release upgrade projects.

The target customers are both **Software Firms or Outsourcers** who implement and manage Avaloq systems, and the **Banks themselves** who, after software upgrades, often experience regression problems on their Avaloq parameterization.

- Due to the growing number of customers to manage and the increasing complexity of the Avaloq system and its parameterizations, **Software Firms or Outsourcers** need to reduce the time of testing for each project or, in the same time frame, increase the number of test cases performed.

- On the other side, the **Banks**, even those who perform only the UAT, need to execute complete no-regression tests and, possibly, implement in a short time repeatable test cases also for the new or modified functionalities of the new Avaloq release.
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Allinweb Solution Characteristics

- 100% HP ALM-UFT compliant
- Developed on Avaloq Model Bank release 3.6 (Full compatible with older release)
- No update needed for new Avaloq release
- Easy and rapid adoption of test cases for the test of a new Avaloq release
- Easy to use for technical people not necessarily skilled in UFT
- Easy to use for the execution of test cases by people who are not necessarily Avaloq experienced users
- Quick impact analysis to verify the validity of test cases (already in library) to test a new Avaloq release
This step is executed by HP & Allinweb consultants: HP ALM 12, HP UFT 12, Allinweb Avaloq testing Framework are installed

This step is executed by Allinweb consultants and consists of needed customizations by pre-built test cases, to become fully compatible with customer Avaloq customizations.

N.b. Pre-built Test cases are ready to run with Avaloq model banking

This step is executed by Allinweb consultants or directly by customer (previously trained), for each test campaign test cases are updated to new Avaloq Releases.

This step is executed by Allinweb consultants called on demand to keep test cases updated to new Avaloq Releases.
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• Availability of a function library to manage the different type of Avaloq layout (e.g. form, table) or command (e.g. workflow, context)

• Availability of modular business components covering simple Avaloq business logic and easily reusable to create business process tests

• Availability of a data driven business process test case library

• Availability of a database to store test case input data, such as to provide an easy maintenance of test cases and when it is necessary, to adapt them to test new or modified Avaloq functionalities

• Availability of a web-based front-end to easily maintain the input data of the test cases
Allinweb Solution Architecture

- HP
  - ALM 12 with BPT 12
  - UFT 12
  - Oracle 11.x
- ATF
  - IIS
  - Oracle 11.x *
- Avaloq
  - Server & client
  - Oracle 11.x

* ATF can migrate to any Open source DB
Allinweb Test Framework & Third Parts

- Allinweb Test Framework could be expanded through specific customizations/projects to support Integration tests to automate business flow through all IT environment.

- Automated Integration Test allow customer to increase the quality of their IT environment and of course of their business.

Third-Parties Systems (e.g. eBanking, ATM, Printing, Archiving, Front Office platform, Legal Reporting, MIS, SWIFT component, etc.)
Pre-built Manager library

- A set of pre built ‘Libraries’ are ready to use for working on all Avaloq Object (Form, Table, Button...)

- Creating a new business components was never so easy.
Pre-built Business Component

• A set of pre built ‘Business Components’ covering all Avaloq core business functionality.
Pre-built Test Cases

- A set of pre-built business Process Test covering core Avaloq area
- You can create a test with just a drag & drop process using pre-built Business Component
Web Site: Test Cases

- You can easily access to Business Process Test Case to configure its data & navigation path
Precompiled value

- Avaloq data like Currency, Business partner, Avaloq menu, Avaloq workflow action, form field... are preloaded

- Fields are shown by pre-built criteria
Allinweb Solution Architecture

Step List

- Automation Data entry is fully integrated with ALM
• Avaloq Object are pre loaded, user has only to choose desired one and decide which operation to do on it.

• Adding a new objects doesn’t need the use of UTF.

• No Object repository needed
Allinweb Solution Benefit

• Reduce Testing cost and test effort (play time)
• Enable new type of test
• Reduce the test case development and maintenance costs
• Reduce time to market
• Increase quality of Application under test
• Improve user perceptions
• Easy adoption
  • Use of HP BPT
  • Aggregate your old test in Quality Center with new one
  • Creation of your new tests is scriptless
  • User can continue to do manual testing just using Quality Center
  • Unique tool (QC) for requirement, bug management..
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