TietoEnator UK Modernises Their Core Banking System by Transforming Three Legacy CM Systems into ClearCase

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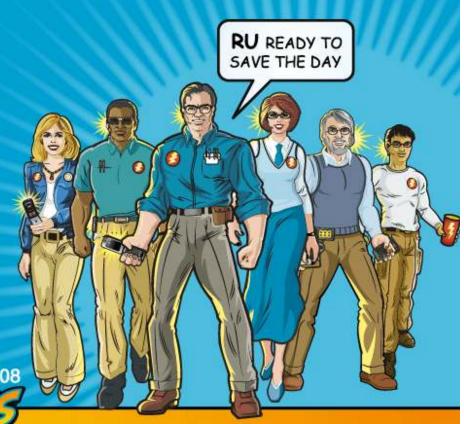
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RU READY TO SAVE THE DAY

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About the Speakers

- Mark Gittins – Senior Technical Specialist (Banking and Insurance, UK)

- Harbinder Basan - Project Manager (Banking and Insurance, UK)

Summary

- Organisation Background

- Problem Situation

- The Solution

- The Results

- The Future

About TietoEnator

- TietoEnator Corporation was formed by the combination of Tieto Corporation in Finland and Enator AB in Sweden on 7 July 1999.

- TietoEnator is an IT service company that develops and hosts digital businesses and provides consulting for its customers.

- The company holds a leading position as a full-scale IT services provider in its home market in the Nordic countries. In the international market, TietoEnator focuses on selected competence areas,

- Net Sales EUR 1772.4 million (2007)

- Operating profit (EBIT) EUR 1.3 million (2007)

- 16,000 employees worldwide

- http://www.tietoenator.com

About TietoEnator in the UK

- Once upon a time there was a company called "AttentiV"…
  - Market-leading Independent Software Vendor (ISV)
  - Presence in UK financial services sector for over 10 years
  - Merger of three companies at different sites
  - Core Products
    - Mortgage Systems
    - Credit Management
  - Approximately 400 employees over three sites in the UK
  - In July 2005 TietoEnator took AttentiV over

Mortgage and Savings Suite - The Product

- An end-to-end suite of complimentary applications that supports;

- Mortgage and related insurance account illustration and application underwriting

  - Mortgage and insurance account administration, servicing and reporting

  - Current and Savings account opening, servicing, reporting and branch telling

  - Property deeds management

  - Internet and telephone banking

Mortgage and Savings Suite – The Technology

- Based on an N-Tier, SOA enabled set of complimentary technologies;

  - Oracle stack technologies underpinned with the Oracle Database

  - Java technologies for channel access and integration

  - Microsoft technologies for branch applications

Mortgage and Savings Suite – Summary

	COMPONENT1	COMPONENT 2	COMPONENT 3
A.K.A	"AIS"	"Activate"	"Central
LANGUAGE	Java	Powerbuilder	30 + languages
DEPLOYMENT TYPE	Application server	Windows client	Numerous
SOFTWARE CONFIGURATION MANAGEMENT	Concurrent Version System (CVS)	Continuus	Source Code Control System (SCCS)
BUILD	Ant	Powergen	In house (complex)
PURPOSE	Service layer	Mortgage applications	Back Office

Mortgage and Savings Suite – The Customers

- The UK market-leading end-to-end Mortgage application and servicing platform;

  – Services 25% of all UK mortgages

  – Operational in 40% of all UK Building Societies

  – Increasing presence in the Tier 1 Banks

Mortgage and Savings Suite - The Problem

- TietoEnator UK's Configuration Management System for MSS

  – Three different systems

  – No unifying CM layer at the product level

  – Lots of manual work, requiring a painstaking amount of error checking

  – Standards and rules for each release were informal and poorly understood

  – Expensive and rare manpower required to "get it right"

  – Each release was a voyage-of-discovery!

  – AND THE BIGGEST PROBLEM – PARALLEL DEVELOPMENT!

  …but we did manage!

The Driver for Change…… **MONEY**….£££££

- **CUSTOMER SALES**

  – A specific requirement, tied to a customer sale

  – We **have to** run a parallel development project – so how do we do it?

- **SPEED OF RELEASES**

  – Management's increasing frustration with the time it took to produce product releases

  – New Corporate Release Strategy

So what did we need to Save the Day?

- A powerful solution that would:
  - Allow parallel development
  - Support distributed development

  - Facilitate an overhaul of our development processes
  - Allow quick turn-around of releases

  - Align with the new corporate release strategy
  - See rapid Return-on-Investment

So What Was our Solution?

- IBM RATIONAL CLEARCASE
  - Clearcase UCM would be the best choice for parallel development

  - TietoEnator has close relationship with IBM Rational

  - TietoEnator's "standard" recommends IBM Rational ClearCase

  - Other parts in the IBM Rational toolset were of interest

A PROJECT WAS LAUNCHED TO DELIVER THE MEANS TO SUCCEED!!

The Project to Save the Day – the Nature

- We have:
  - To support a new client release
  - To support all existing clients

  - Tight deadlines
  - No room for system downtime

  - Resistance to change – we have to sell the idea
  - Marketing and Sales teams relying heavily on project success

- Failure is NOT an option!!

The Project to Save the Day – the Objectives

- To produce an environment that would support:

  - Single Configuration Management system for the product

  - Teams working in parallel

  - Readiness for next-generation of development projects

  - A new suite of Build Tools

- So how did we do it?

The Project to Save the Day - Project Structure

- Project Organisation

- Agile Methodology

- Training

- Communication

- Constraints & Limitations

The Project to Save the Day - the Environment

- IBM Rational ClearCase v7 UCM

- Interop Environment

  – Unix VOB and view server, Solaris SPARC 8-10

  – Unix Clients

  – Used Solaris 8 to 10 (with use of Solaris Zones)

  – Windows Clients with local views

  – Linux for testing systems

The Project to Save the Day - IBM ClearCase Migration

- Source code base was c. 35,000 files from 3 Configuration Management systems
  - SCCS (5,000 files)
  - CVS (25,000 files)
  - Continuus (5,000 files)

  - We re-created History in ClearCase:
  - The Process
    - Exports taken of each relevant version of required source code
    - Imported into ClearCase
    - Then Baselined
  - This was repeated about 44 times
- There were some mistakes! We fixed them on the way.

How Things Looked After the Import…

The Project to Save the Day – the Build

- **New suite of Build Tools:**

  – Existing build was **very** complex

  – Over 30 source code types

  – 4 different versions of Oracle required

  – Mixed Unix and Windows build environments

It wasn't easy but…

- …we did it!

- Project started UAT for the Development Project - **Nov 2006**

- Project went "live" for the Development Project - **Jan 2007**

- First "patch release" for the Development Project - **Feb 2007**

- Project went "live" for Mainline product development - **March 2007**

- Delivered first Mainline Major Release - **July 2007**

- Next Mainline Release - **December 2007**

So What Has It Given Us?

- A single CM system for the Core Product

  – Better management of CM information

  – Single product for developers to work with

  – Ownership in a single team of all CM matters

  – Encouraged better development lifecycle process

Continued ….

– Better quality of releases

– Significant audit improvements of source code and built artefacts

– Turn around releases in a fraction of the time (1 release per year vs. 3 per year)

– Plug-in to other Rational tools

– Transition towards distributed development

– A starting point for further improvements

So, What Did We Do Next?

- IBM Rational ClearCase MultiSite for Offshore Development in India

- A new look at the Build Tools

- IBM Rational ClearQuest

REVIEW

QUESTIONS

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