





Automated Testing with CA Plex, CA 2E and Worksoft Certify DevOps for CA Plex













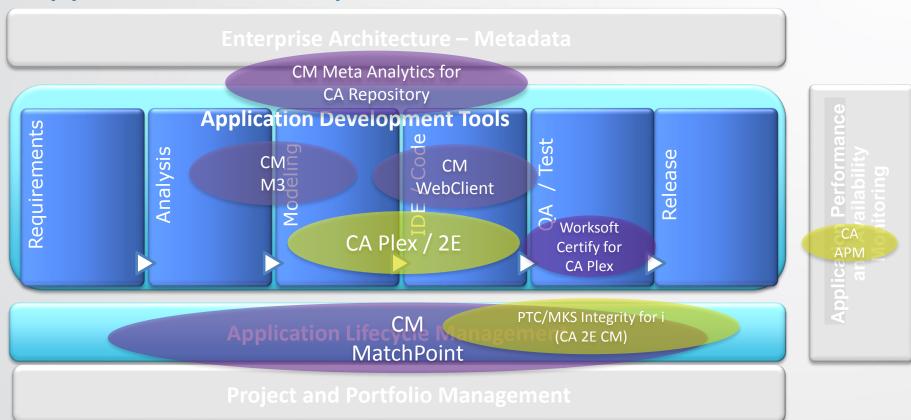
CM First Group

- Information Technologies Services and Product Company
- Focus on Application Modernization on IBM environments
- Headquartered in Switzerland, Operations in USA, Italy and France
- 35 employees / over 400 customers
- CA Technologies for CA Plex / CA 2E / CA Repository
 - Sales, Services, CA SMART Certified Products
- CM First Products add value to CA Technologies Products
- Worldwide Sales through partner network





Application Development Solutions



DevOps Support

CA Plex / CA 2E CM WebClient Worksoft Certify CA 2E CA Plex, 2E WebOption DevOps **CM MatchPoint** ALM **Technology Operations** Rethink Modernization

Overview

- Intro to Automated QA/Testing
- Using Worksoft Certify
 - CA Plex (and 2E) Apps
 - Case Study Department of Justice Zurich



Value Proposition

Automated testing radically alters the economics of quality

Removes technical barriers for wider participation

Expands test coverage across applications & platforms

Reduces implementation overhead

Reduces lifetime cost of ownership



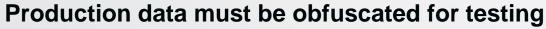
Business Case For Change

Business risk is increasing

Market pressure drives schedules Functionality, complexity expanding Applications exposed to customers

Manual testing can't keep pace

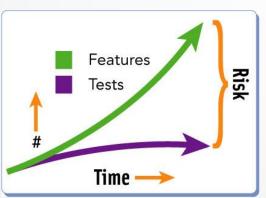
Time, resources and skills are limited No reusability means decreasing coverage Time, turnover cause loss of knowledge



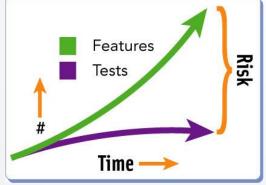
Compliance Outsourcing/offshoring

Automation is only answer

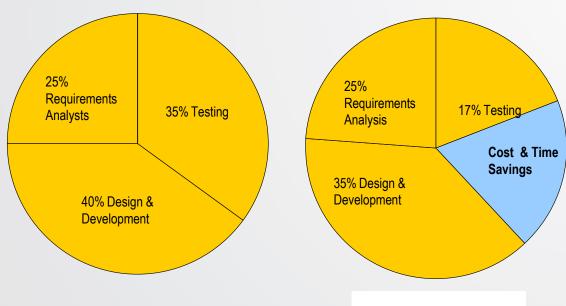
Increase coverage Reduce time, resources







Return on Investment



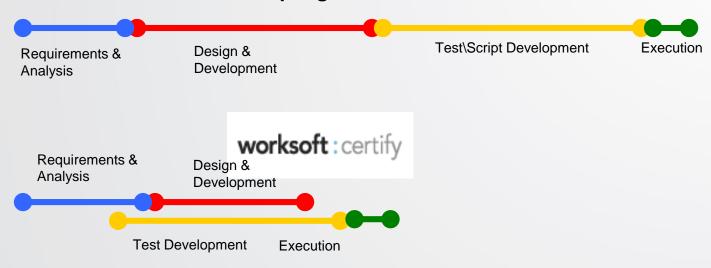
worksoft: certify



Scripting / Manual

Certify Reduces Time to Market

Scripting Tool





Customer Case Studies

Before: One application took four

months to test with scripting

Today with Certify: 32 are tested in four months



Scripting tool after 2 years work:

Only 2 out of 12 Member QA team could use script tool

No business analysts could use scripting tool. "Q/A is a bottleneck."

Today with Certify:

12 out of 12 member QA team using Certify 50+ Business Analysts & users using Certify



Training

2 weeks training per user on script programming language

80% Time savings & productivity gain 2 days class training per user No programming

Design

3 months to learn how to design a reusable testing system

1 week to design processes, cycles, schedules & recordsets Reusability built into the repository

Development

2 weeks script coding time per screen to validate all fields

4 hours to import screens, validation built-in No coding required

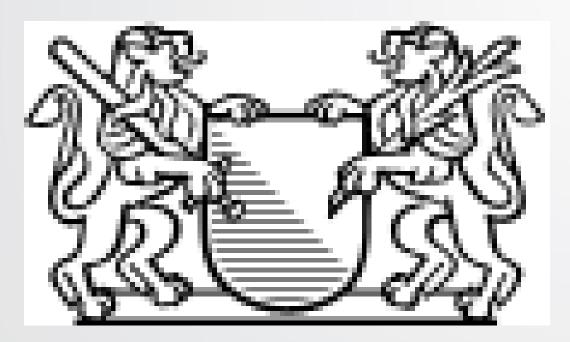
Maintenance

4 hours per screen change, for impact analysis & modifying screen code

20 minutes to import new screens Impact analysis & script update is automatic

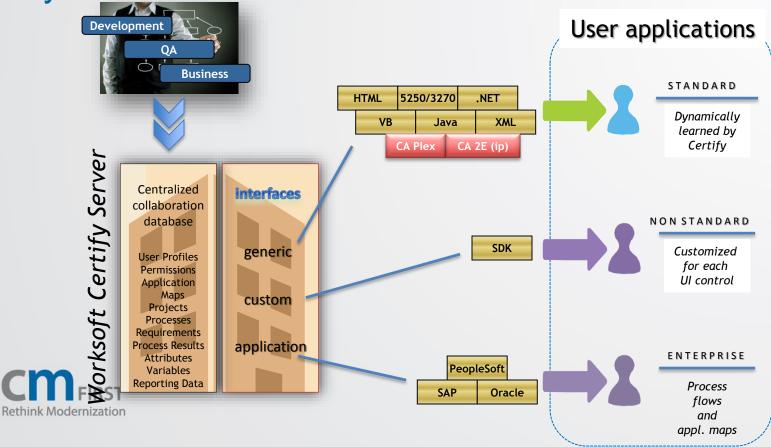


Customer Case Studies





Certify Architecture



Key Differentiators

Worksoft Certify makes it easy to

- Collaborate
 - Manage your test process across the enterprise
 - Organize all your test assets in a single, shared repository
 - Document your tests and results in a standard format for compliance
- Automate
 - Automate your tests without coding
 - Update your tests instantly and automatically
 - Execute end to end, seamlessly across platforms
- Accelerate
 - Automate more tests and applications in less time
 - Enable shorter cycle times with greater coverage
 - Deliver better applications faster

No other solution can deliver these benefits





Worksoft Certify Overview

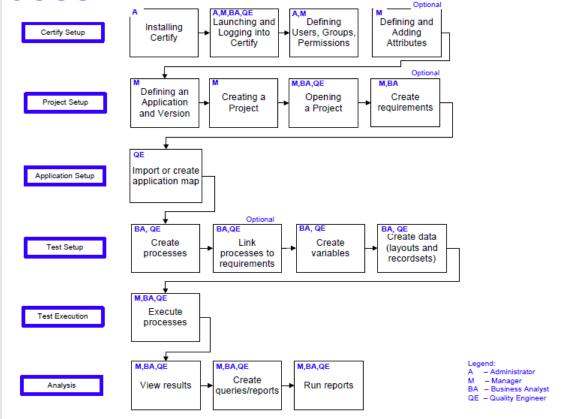
Screen shots



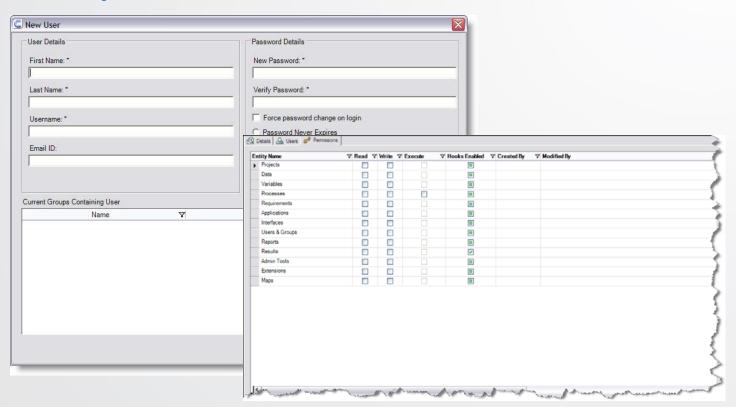


Certify Process

Rethink Modernization

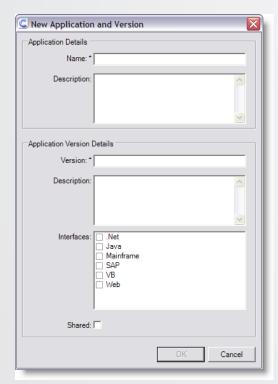


Users and Groups





Applications and Projects

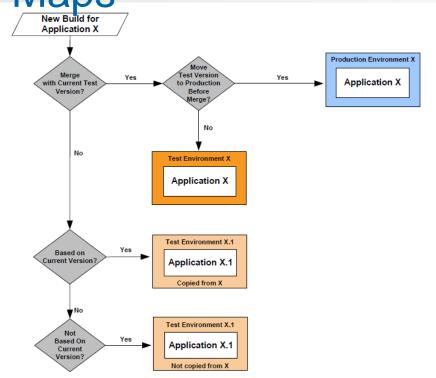


New Project	
Name: *	
Description:	
	☑
Notes:	<u> </u>
	<u>©</u>
Application Versions:	Applications Account Manager Development 1.0 Account Manager Testing 1.0 1.0
	OK Cancel



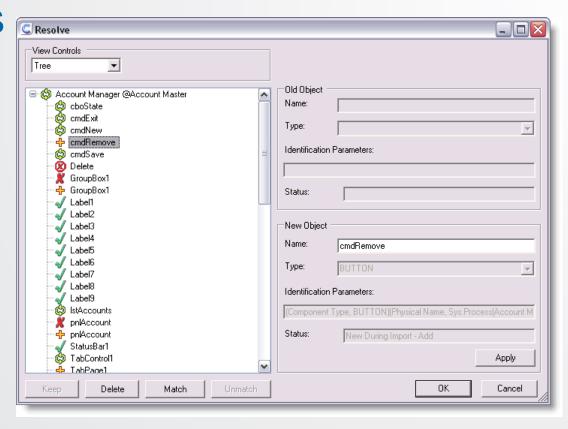
Application Maps Select - Process Windows Insert (WXuF) Grid (WXuF) Button1 Button2 Account Master | Account Transaction Fund Shan Money 2500 Learn Cancel Learn Labels X Item Name Open... Category Name Item ID Run Shift+F3 □ CategoryActive CategoryClass View Result Item Description Export Result Item Price Issue tracking Network Suite Options... Install Extensions... Apply Back Install Script Extensions... Check for Updates Register.. About... Rethink Mode # Start @ ② O Worksoft Exit R Shortcut to PlexRuntime...

Versioning Maps



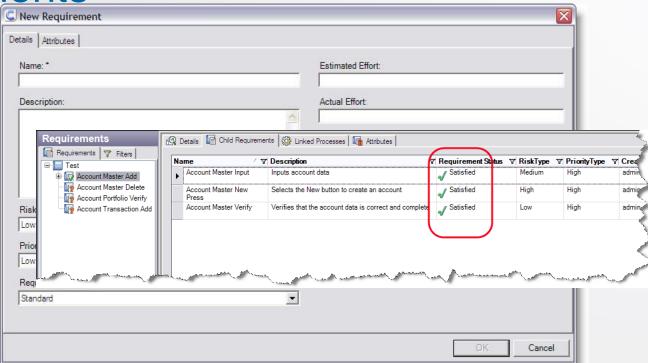


Versioning Maps



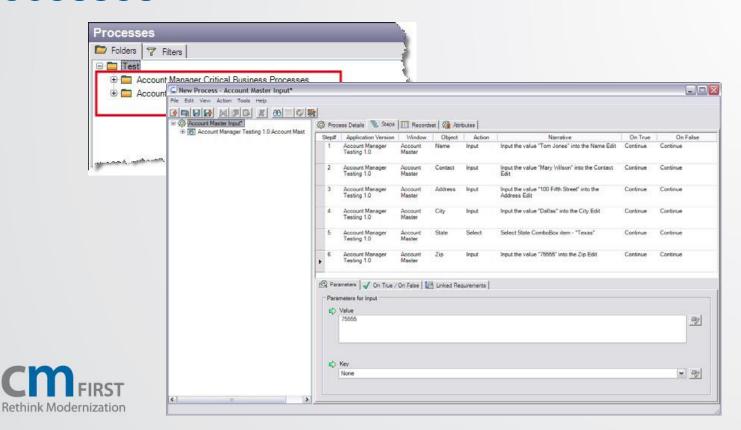


Requirements

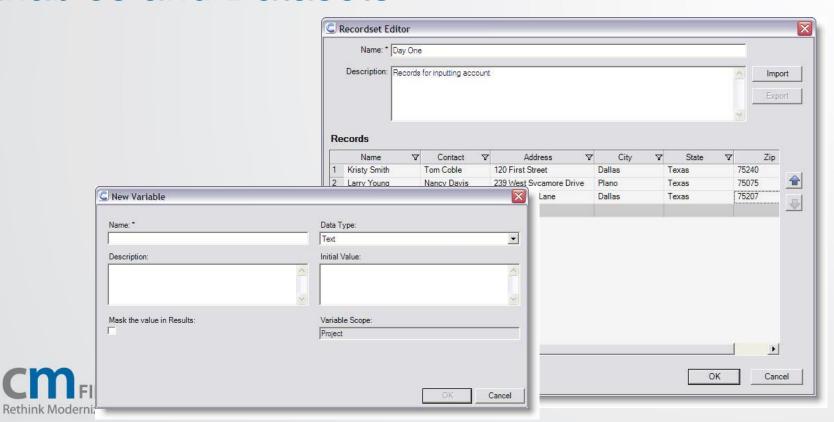




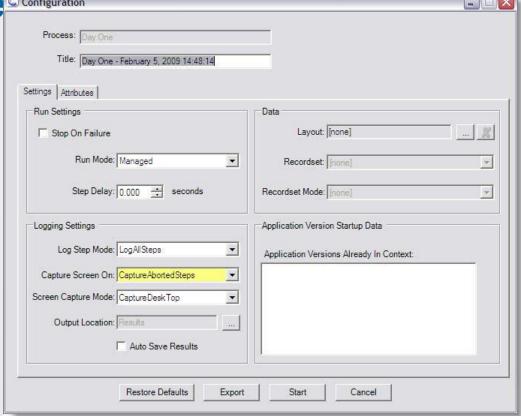
Processes



Variables and Datasets

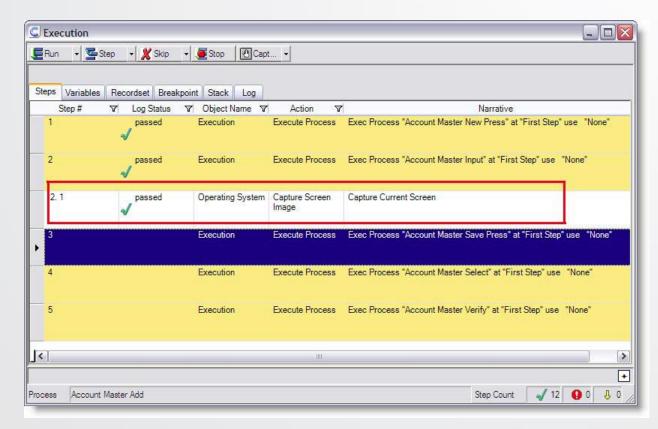


Executing Processe Configuration





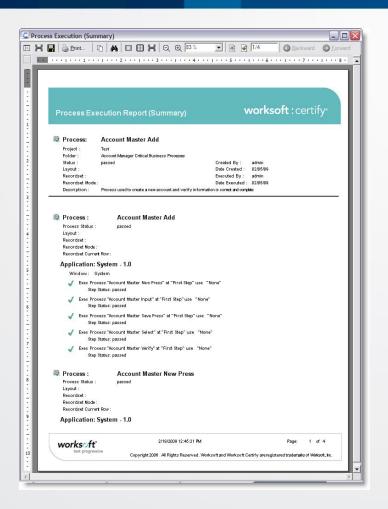
Executing Processes





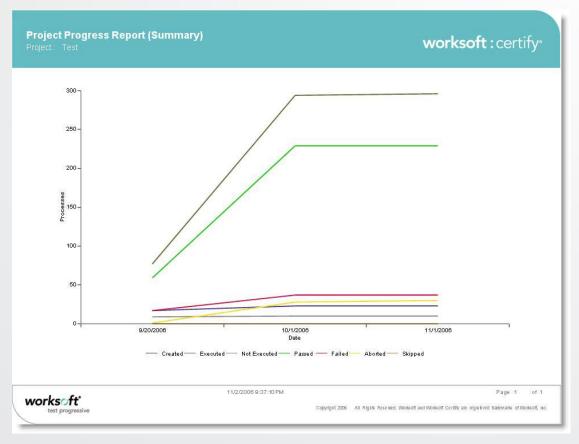
Executing Processes

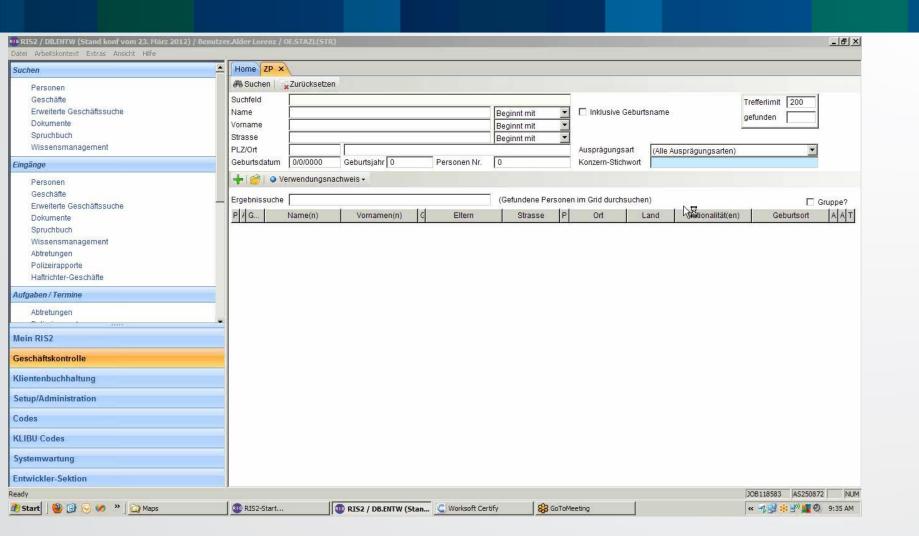




Executing Processes







Value Add for the CA Plex/2E Customer

- CA Plex C++ Interface (5250, Java, C# also supported)
 - Co-Developed with Worksoft CodeJock support
- CA 2E Screen Import
- CM First Experience with API / Customization
 - Adding components, specialized map import
- Training around to CA 2E/Plex User



Department of Justice Zuerich

DOJ Zuerich Justice
 Management Solution:
 prosecution, court system, penal
 system

Development Goals

Rethink Modernization

- High development efficiency
- High quality / Low risk
- User friendly interface, low training cost
- Highly maintainable code
- Enterprise app for thousands of FIRST current users

- Solution
 - CA Plex
 - CM MatchPoint
 - SCRUM
 - Training / Implementation
 - CM First Development Team
 - Worksoft Certify
 - C++ interface

Project Scope

- Development of a case management system for DOJ, Switzerland:
 - Team
 - 12 developers
 - 4 QA engineers
 - 2 Requirement engineers
 - 4 Scrum masters
 - 2 Product owners
 - 2 Product managers
 - 4 Operations
 - 4 Scrum teams



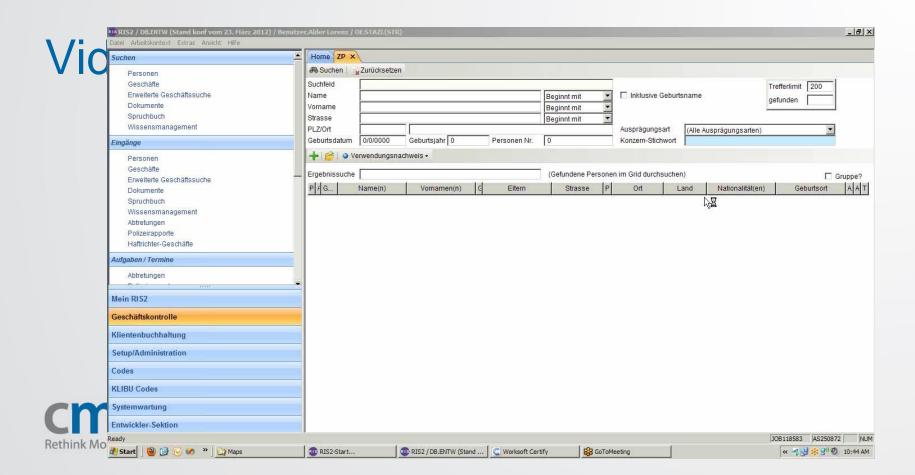
Project Scope - continued

- Project schedule
 - Phase A: Implementation Summer 2014
 - Phase B: Summer 2015
 - Phase C: Spring 2016
 - Phase D: 2017
- Application
 - 3 CA Plex models
 - 1,500+ panels
 - 700+ entities



Application Testing Challenges

Speichem * Kopieren X Löschen / Whamensänderung - 1/4 Alas - ME Dop Complex application / complex Todesdatum - 0 X RIS2 / DB.Entwicklung / Benutzer.Arthur Häberli / Firma.STAZL(STR) atei Arbeitskontext Extras Ansicht Hilfe ■ Home 2 ZP 2 Bit,An,1965 2 Ams,An,1980 2 Mos,Re,1961 × 🖵 Speichern 🍍 Kopieren 🧮 Löschen 🚁 Namensänderung 🕶 🤡 Alias 🗸 🛗 Doppelerfassung 🗸 🧘 Ausprägungen 🏴 Korrigieren ein/aus 🎱 Audit/Historie 🕶 Personenfirma POLIS-P-Nr Zentraler Personenstamm Eintragsart vins cht elektronische Zustellung Erweiterte Geschäftssuche PersonenNr. N-Nummer Dokumente Personenart Natürliche Person AHV / SV-Nr. AK-Nummer Spruchbuch Name Moscardini Wissensmanagement Renzo Vorname Weitere Vornamen Geschlecht Geburtsname männlich 22.07.1961 Geburtsdatum Namenszusatz Personalienzustand Todesdatum 00.00.0000 Polizeirapporte Abklärungsdatum 00.00.0000 Informationsbasis Einwohnerkontrolle Haftrichter-Geschäfte Kategorie seit 00.00.0000 Aufgaben / Termine Ausländerkategorie Aufenthalterin/Aufenthalter (Ausweis B) Beruf Beruf seit 00.00.0000 Meine Geschäffe Sprache Italienisch **+** Pendenzenliste Büro Strafbefehle rechtskräftig Vater Brawand, Karl, 8627 Grüningen Brawand, Janine, 8330 Pfäffikon ZH Mutter Fristenkontrolle Ehepartner Vormund Brawand, Karl, 8627 Grüningen ▼ seit 00.00.0000 Zivilstand ledig Statistiken (ZS) Land (Nationalität) Italien Eingänge in Periode GebOrt Land Frankreich Geburtsort Cipulli / Korsika Geschäftskontrolle ☐ Postfach 4456456464564 Adresszusatz Telefon Jur. Sachbearbeitung / Büro Strasse Rämistrasse 52 Mobile +41 79 311 22 67 EMail renzo.moscardini@hotmail.ch Rechnungswesen Landbezeichnung wünscht elektronische Zustellung Statistiken / Controlling ○ Ausprägungen × \ Setup/Administration Codes PersonenAusprägungsArtBezeichnung Ausprägungsart Krankenkasse Systemwartung 03.05.2011 Krankenkasse Gültig von 31.12.9999 Entwickler-Sektion Rethink Modernization JOB683359 AS892417



Summary

- Value add to QA
 - Greater application quality
 - Faster time to market
 - More enterprise visibility
- Tighter integration with business

Subject matter experts fundamental to the process

Faster delivery cycles

- 80% less training required
- 92% faster design
- 95% faster test development
- 97.5% more efficient maintenance







Q&A, Discussion

http://cmfirstgroup.com

