

cm FIRST
Rethink Modernization



ca 2E/PLEX plex2e.com
2013 WORLDWIDE DEVELOPER CONFERENCE

Modernizing CA 2E and RPG Apps using Plex, CM M3 and WebClient in France



Agenda

- CM First France / Belharra Overview
- Migration Technology
 - CA 2E to CA Plex
- Demo

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

CM First France



- Based in Paris (La Defense Business Center)
- Approx 80% 2E, 20% Plex in Country

Belharra Overview



- Location: Bassussary, south of Bordeaux (south west of France)
- Activity: IT service company specialized in IT modernization, to improve productivity and performance of mid-market companies
- The team: 30 persons, composed at 90% of IT engineers

Belharra Project Requirements



- Exportation of nutritional products with specialized ERP developed in 2E
- Why did they choose CA/Plex and webclient:
 - Robustness and development rapidity
 - CM M3 service for the “bridge” between 2E and Plex
 - Universal access using light laptops



CA 2E 5250 to Web

Options

Screen Scrape

- Limited

Rewrite

- Cost

Model → Source

- Maintainability

Model → Model

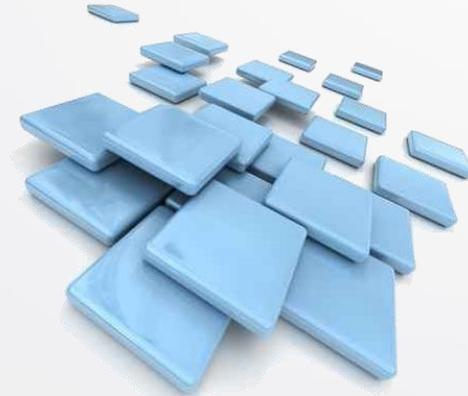
+ Learning curve

+ Cost

+ Refactorability

The CM M3 Solution

- *CA Plex, with Java primary target, RPG and .NET secondary targets*
- *Total Solution - Highly automated and maintainable (caveat: 2E model objects only)*



The Right Way

- **Effective** modernization requires:
 - High levels of automation, approach 100%
 - Maintainable, verified, tested result
 - Web applications and SOA out of the box

- A complex problem to solve



Modernization to Web and Mobile

Reuse Code Base and Layout

The screenshot shows a web browser window displaying a mobile application interface. The browser's address bar shows the URL `http://app2.adcaustin.com/MDSwebDev/webclient`. The page title is "WHSEGU1P - Edit Warehouse". The interface includes a navigation menu with items like "Logistics", "Process", "Labor", "Orders", "Transportation", and "Purchasing". The main content area displays "CORP > WHSEGU1P - Edit Warehouse" and a list of items with columns for "Warehouse", "Area", "Product", "Quantity", and "Date". A "Map" view is also visible, showing a geographical map with a location marker. The browser's status bar at the bottom indicates "Internet | Protected Mode: Off" and "100%" zoom level.

Web / Mobile
ASAP

CM M3 Process

Full Model Migration

Original 5250

| Date | Receipt | Part | Slot | Item | Case | Qty | Vendor | Ratio |
|---------|----------|------|-----------|--------|------|-----|--------|-------|
| 2/09/00 | 0/12/00 | 103 | 00-500-21 | 000004 | 100 | 1 | | |
| 2/09/00 | 0/12/00 | 104 | 00-500-21 | 000004 | 100 | 1 | | |
| 6/02/00 | 12/06/00 | 222 | 00-500-21 | 000006 | 18 | 1 | | |
| 6/02/00 | 12/06/00 | 223 | 00-500-22 | 000006 | 48 | 1 | | |

XML -> Plex Model APIs



New Environment (SOA & Web)



- CA 2E (Synon) models & generated applications
- Native:
 - RPG
 - COBOL
 - CL/i5/OS artifacts

- Manual - Native code Rewrite
- Worksoft Certify regression testing

CM M3 – Technology has Matured

- Fine-grained control using Model APIs
 - Restart capability
- Good coverage of all non-source based 2E objects except PRTXXX
 - Guaranteed
- Standardized Java Target
 - Portable to all platforms and databases
 - Solves 2E working storage complexities / no state server
 - Enables Web and Mobile out of the box
 - Tunable and scalable performance

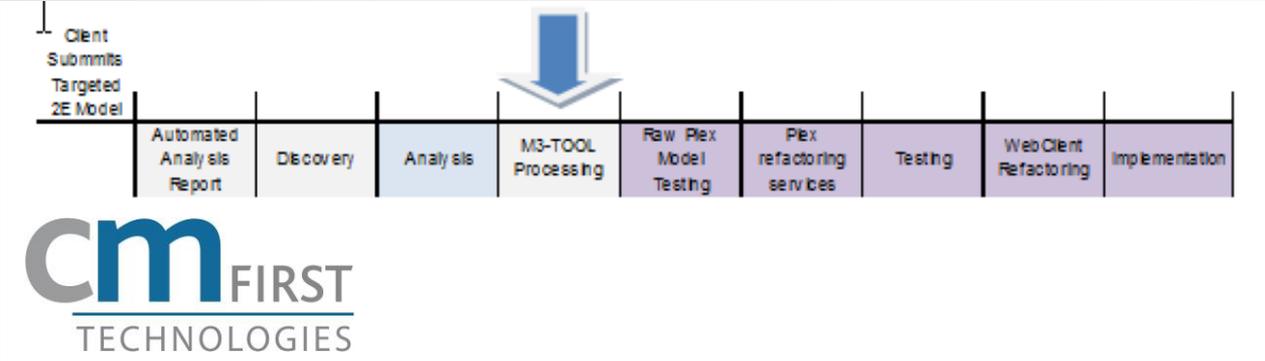
CM M3 – Current Technology

- Layered Capability
 - Migrate Schema Only
 - Migrate Server Functions Only
 - Migrate Subsystem Only
 - Keep using 2E
- Flexible Patterns
 - Based on CA Patterns, using standard inheritance
 - Screens be refactored into Hierarchy's, Tabs, Wizards, Dashboards



Process

Migration Process



Analysis Goals

- Determine 2E object counts and issues at a high level – no charge
- Determine cost and timeline migrate 2E Client models to CA Plex
 - Supported 2E model object types only
- Analyze non-migrate-able functions

M3 Plan Assumptions

M3 includes a fully migrated and guaranteed 2E Model Plex Model of database schema and most 2E function types.

Specifically Excluded:

- User Source (EXCURSRC) functions
- User Programs (EXCURPGM) functions
- Print File (PRTFIL) functions
- Print Object (PRTOBJ) functions

Example Model Summary

- 1 model - XORGMDL
- Model Summary
 - 1020 Total Functions
 - 77 Print File / Print Object
 - 28 Execute User Source
 - 62 Execute User Program
 - Remainder migrate-able – using 900 for costing
 - 185 Physical Files
- Technical Concerns
 - xxxxxx

Fixed Pricing Model

- Set up fee per model, \$25-45K
- \$10-15/USD per function migrated
- Time and materials for non-standard migration
 - User Source of any type
 - Refactoring
- Guaranteed result



Demo

EDIT ACTION DIAGRAM

LOCKED

XDUXM2

CATEGORIE ASSURANCE

FIND=>

Saisie

Action Diagram Summary

X=Select Z=Zoom T=Top

> Saisie

> Initialiser

Initialiser contrôle de sous-fichier @ partir des param}tres

> D{finir mode de programme

.-CASE

.-Enregistrement de FBD trouv{

PGM.*Mode du programme = CND.*MODIFIER

.*OTHERWISE

PGM.*Mode du programme = CND.*AJOUTER

.-ENDCASE

More...

F3=Prev block

F12=Unzoom

F13=Exit

F16=Change dates

F21=Imp names

Hide/Show blocks . :

F2=ACT

F4=CAS

F6=ITR

F8=SEQ

F10=TXT

belharrara

SEA2EFR
← SEA2EFR

Log Out

Code Catégorie Filter

Select All

| CA | Libellé | Abrev. | Annul. |
|--------------------------|------------------------------|------------|--------|
| <input type="checkbox"/> | XX est Belharras | TestBelh | |
| <input type="checkbox"/> | 01 MARCH.DIVERSES NDAs | DIV NDA | |
| <input type="checkbox"/> | 02 FRIGO NEGATIFSS | FRIGO NEG | |
| <input type="checkbox"/> | 03 FRIGO POSITIF OEUFS FROM. | FR.POS O.F | |
| <input type="checkbox"/> | 04 TOUS FRUITS LEGUMES | FRUIT,LEG. | |
| <input type="checkbox"/> | 05 MORUES | MORUES | |
| <input type="checkbox"/> | 06 MARCH DIV NDA +TRANSBORD | DIV+TRSBOR | |

F3=Exit F9=Création

Supprime Libérer
OK Prompt Change Mode Reset Exit

<http://localhost:9080/belharraweb/WebClientServlet>

Q&A, Discussion

<http://cmfirstgroup.com>

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