CM evolveIT for
CA Plex/CA 2E/LANSA

Understand and transform your CA Plex, CA 2E, and LANSA
Applications with CM evolveIT

The enormous complexity an IT manager faces when modernizing a legacy application demands a serious solution that can power true digital transformation.

Millions of lines of code drives your mission-critical enterprise system. Key engineers have moved on and others are thinking of retiring. Documentation could be a whole lot better.

Management shares your concern; how do you maintain and control the "knowledge capital" that tends to walk away with your key players, and set a path to modernization for the sprawling monolith that runs your company's most critical global operations?

You have options.

Give Built-in Tools a Try?

CA Plex, CA 2E and LANSA have built-in tools to help you analyze your custom-built enterprise application. Why not use them? The problem for many is they fall well short of providing actionable intelligence about the scope, depth and overall complexity of a serious application.

> *A global survey of 890 corporate CIOs revealed that a full 44% believe complex legacy technology is a "significant barrier" to digital transformation.*
> - Logicalis 2017-2018 Global CIO Survey

Contents

Have a serious modernization planned? Forget it.

They take forever to load, and once they're finally finished running your analysis, you can't export the data. The information is limited and doesn't show critical information like lineage. And good luck estimating without any metrics.

Stuck in Neutral

With these bare-minimum tools, data becomes a liability. Educating decision makers (i.e. big check-writers) becomes a task unto itself; management and business analysts won't understand the output without lots of "translation". Management might find it hard to "get it" and satisfy themselves with the comfort of knowing that at least the company's critical operations are moving along. As a result, the much-discussed modernization plans are placed on the back-burner or avoided altogether.

Unfortunately, you can still hear the calls by a variety of stakeholders to adopt modern technology and improve the speed and efficiency of your big system.

Introducing CM evolveIT

CM evolveIT can get you back on track and lay the foundation of a meaningful modernization effort by eliminating these "significant barriers to your company's digital transformation" that so many CIOs and IT managers face.

In the process, CM evolveIT will **reduce risk**, **improve DevOps**, and **speed up development efforts** geared towards moving your CA Plex/ CA 2E/LANSA system into the future.

SOLUTION:

CM EVOLVE IT®

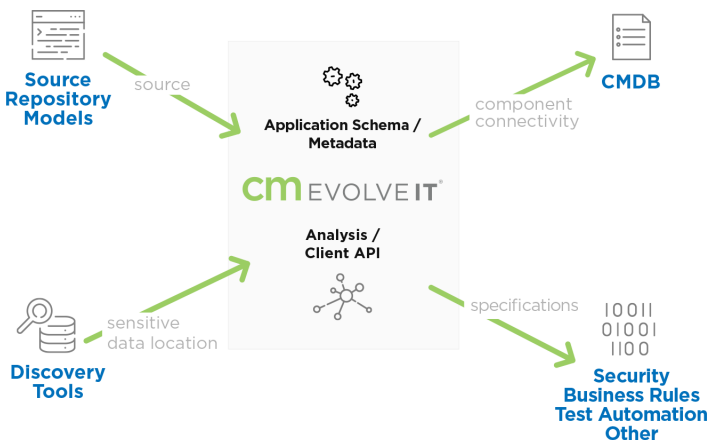| Auto Documentation	Analyze Entire Codebase
DEMYSTIFY LEGACY APPS	WORK AT SCALE, FLAWLESSLY
Code Structure Complete	**Business Rules Confidence**
QUALITY MANAGEMENT BUILT IN	ABSTRACT, DOCUMENT, CONTROL

Figure 1: CM evolveIT fits into an enterprise ecosystem

CM evolveIT is a Valued Member of Your DevOps or Modernization Team

If you have a modernization effort planned or already underway, CM evolveIT is simple to implement and works gracefully alongside whatever tools, methods or programs you're using to get the job done.

And it will improve your results exponentially. Use CM evolveIT[2] to generate meaningful analytical results, metrics and statistics and output to JSON or CSV to turbocharge the tools you're using now.

Our Secret Sauce: 3-way Analysis Engine

CM evolveIT's true power lies in a **3-way analysis engine** that reveals everything you need to get a handle on a complex CA Plex/CA 2E/LANSA enterprise application.

Combining **model inspection**, **deep source analysis** and **application configuration detail**, CM evolveIT provides clarity with respect to all of your CA Plex/CA 2E/LANSA moving parts and how they relate to each other, in ways no other software can.

CM EVOLVEIT THREE-WAY ANALYSIS ENGINE

CA Plex/2E/LANSA Model and Source

01 Model Inspection

How many functions and DB schemas are used in your models?

02 Deep Source Analysis

Analyze your applications generated source code

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1101
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03 Application Configuration

How are functions connected to your data?
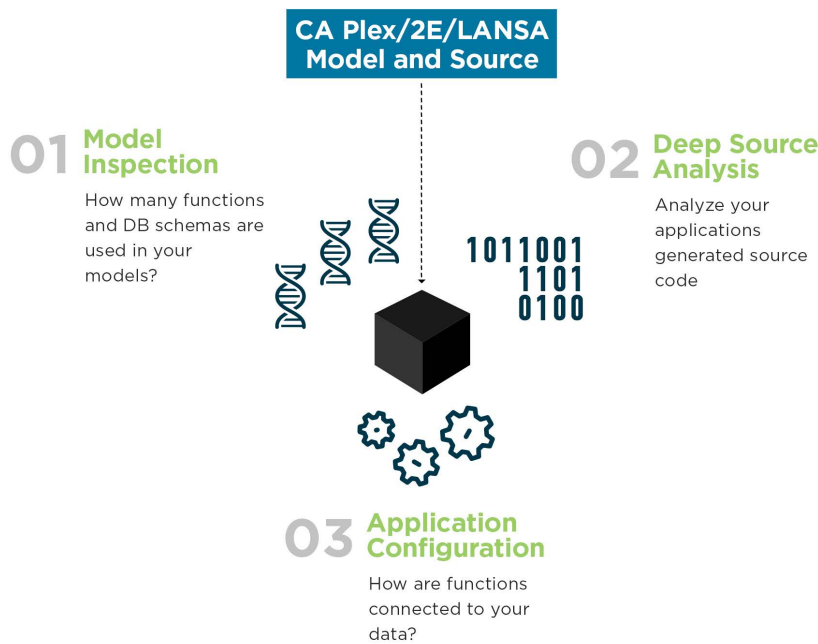
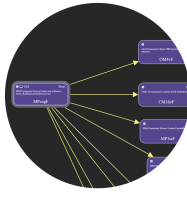*Figure 2:* CM evolveIT's Secret Sauce: Three-way Analaysis
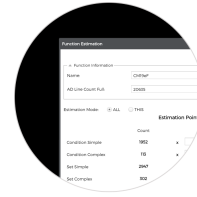
CM evolveIT Features
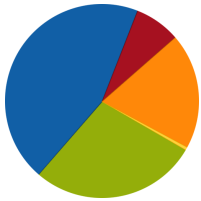
Portfolio Dashboard
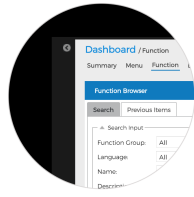
Menu and Function Browsers

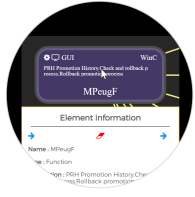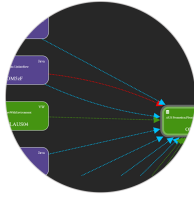**Call Graph with Data Access**

Estimation with Estimation Points

Object Filter

Detailed Function Information

Export Diagrams

Data Flows Table

Action Diagram Code View

High-level View with Portfolio Dashboard

CM evolveIT's Summary Statistics view provides a high-level overview of the components of your CA Plex/CA 2E/LANSA system revealing languages, and application size and complexity stats. The statistics reveal a broad view of how your application is constructed and is very useful for management and non-CA/LANSA audiences.
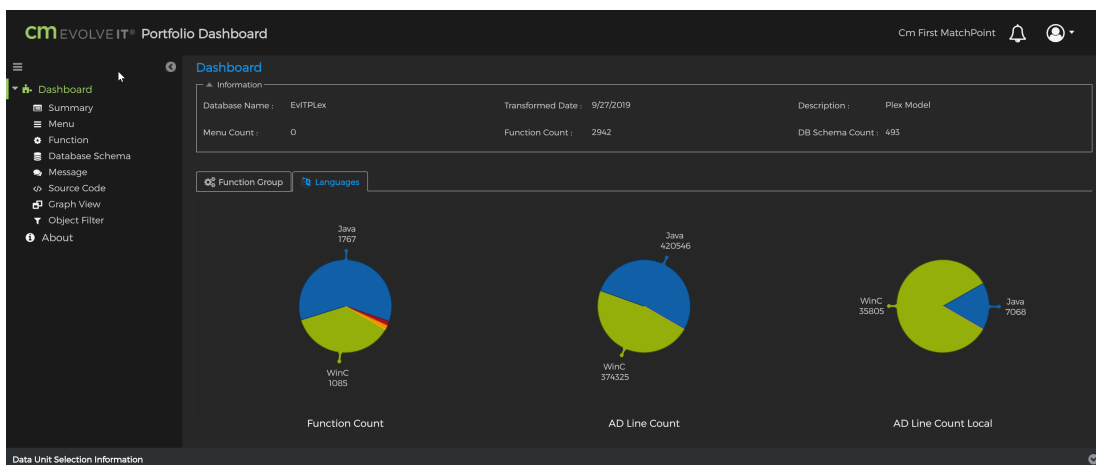
Figure 3: Get an instant snapshot of your application by object type and code base. Metrics are available to show overall scale of each component by subsystem. Navigate to more granual levels of detail by function, database table, message, and other object types.

Slice Your Application with Menu and Function Browsers

Start the analysis of your systems with multiple ways to slice your application: menu, function, or data view. See call graphs, data access and trace, usage and more. These views are a lot faster, more detailed and more accurate than anything CA Plex/CA 2E/LANSA features can provide.

Figure 4: Drill into functional areas by root function. See all related functions in call graph, and drill into details. Export information to CSV or JSON.

Deep Analysis with Call Graph with Data Access

The Call Graph provides deep analytical insight helpful when preparing to update or upgrade a CA Plex/CA 2E/LANSA system. The Call Graph reveals what functions are accessing application data, including whether the function is creating, reading, updating or deleting. Further drill-down into the functions reveals all of the application connectivity.
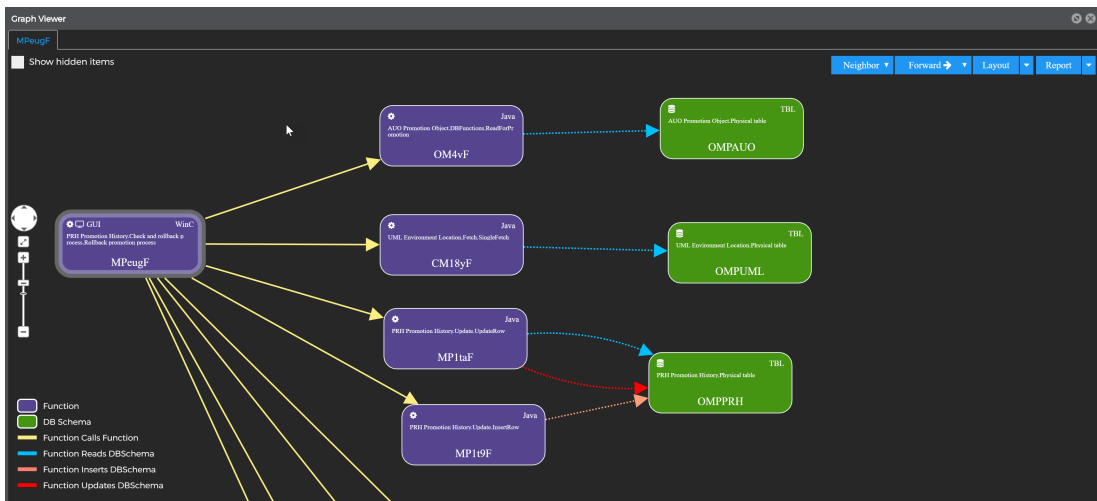

Figure 5: See your functional call graph at different levels of detail. Visualize function flows and data flows. Expand the diagram and drill into details of an object. Export the diagram to popular tools like draw.io.

Estimation with Estimation Points

CM evolveIT provides an estimation capability using Estimation Points, which represent function metrics (e.g. conditionals, assignments, or calls) as a point. Similar to Function Points, you can leverage Estimation Points to estimate changes to a function based on its complexity and any estimation criteria you apply to it. The results are clear, insightful, and user-friendly to a non-CA/LANSA audience.
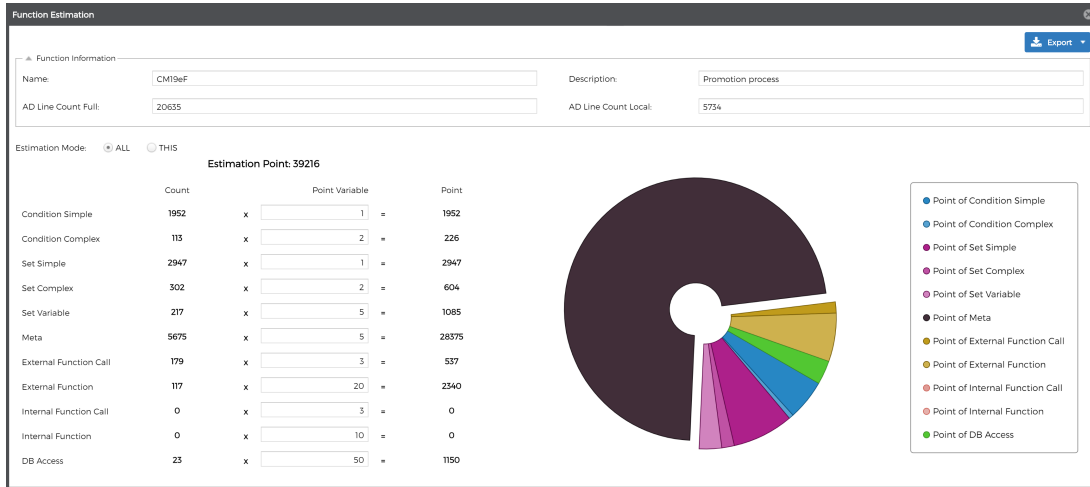

Figure 6: Get a handle on the complexity of a single function or group of functions. Calculate complexity using your own in-house metrics. Assess effort of major changes or effort to replace functionality.

Object Filter

The object filter lets you eliminate library functions that may detract from core analysis activities.
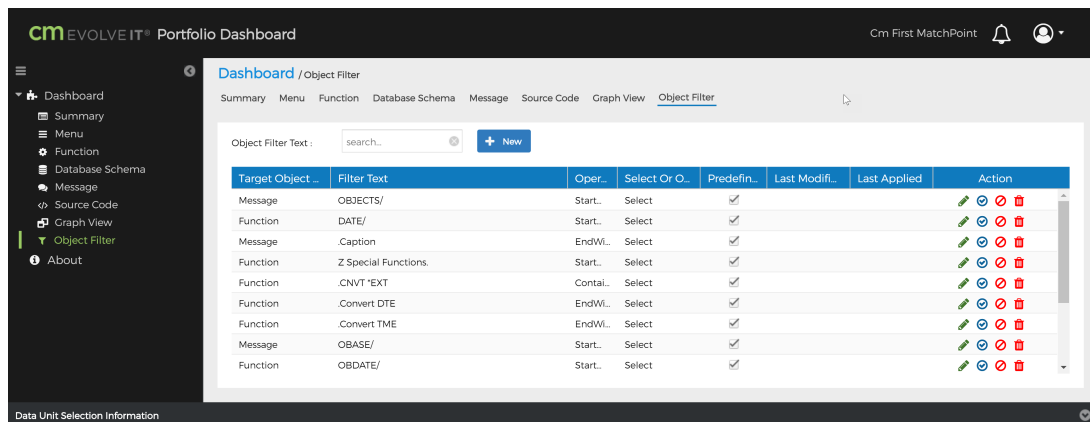

Figure 7: Filter out library functions that aren't relevant to core analysis activities.

Detailed Function Information

See information about a function, including forward and backward paths, code (action diagram), and relevant information like SQL statements. Eliminate the function from your diagram if desired.

Figure 8: Detailed Functional Information Window.

Export Diagram

All diagrams can be exported in a number of formats. For example, export to draw.io or to Json.
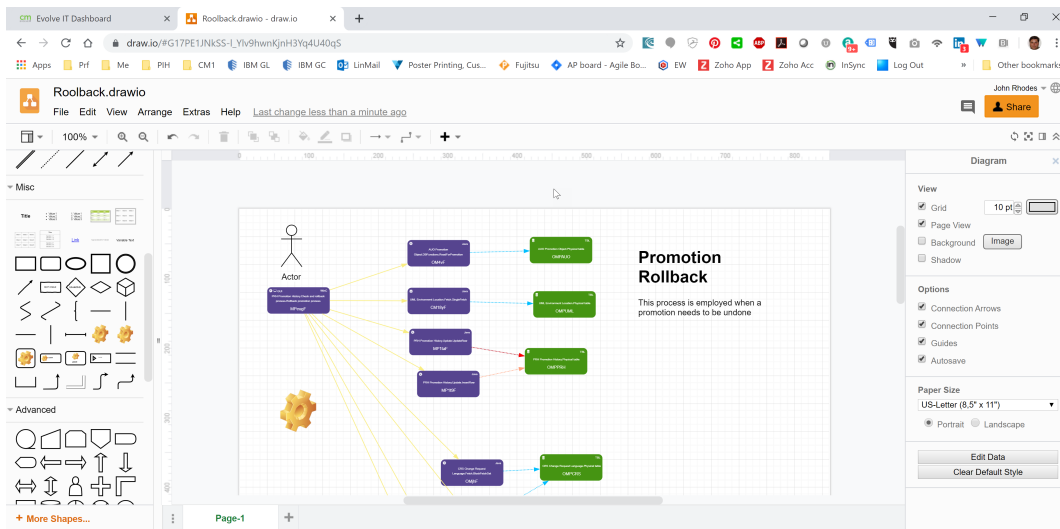

Figure 9: Diagram export into draw.io slide.

Data Flows to Table

Assess impact to database changes instantly by showing data lineage into a particular table, optionally through an LF or View.
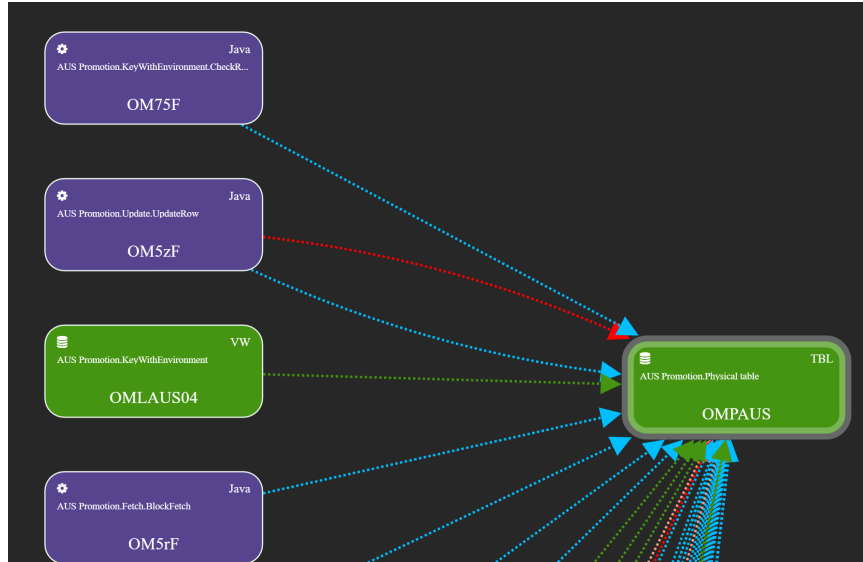

Figure 10: View database impact by showing data lineage into a table.

Action Diagram Code View

Instantly see your action diagram code, either local modification or full view. Give code level access to analysts that may not be licensed or trained on CA 2E/CA Plex/LANSA.
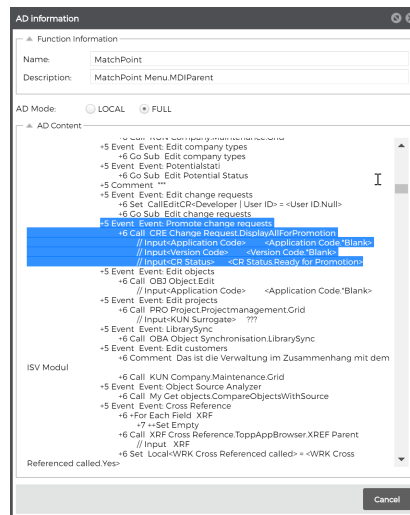

Figure 11: Diagram code local modification view.

About CM First Offerings

CM First's powerful automation tools, augmented by professional services staff with many decades of software engineering and DevOps experience, ensure successful outcomes for even the most demanding modernization projects. Our products and expertise have helped over 400 customers in the public and private sectors reach their desired future state faster and more cost effectively than by using conventional approaches.

CM First software quickly analyzes, documents and re-platforms legacy code bases with minimal errors and rework, including those that are too large and complex for humans to tackle in any reasonable timeframe. The output is immediately usable by all team members, regardless of experience and knowledge of legacy software languages, accelerating application maintenance and modernization projects.

For more information, visit **cmfirstgroup.com**

Request a Demo Today

Contact us for more information or to schedule a demo. Call 888-866-6179 or email us:
info@cmfirstgroup.com

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Rethink Modernization

CM First Group
888-866-6179
cmfirstgroup.com

7000 North Mopac Expressway
Plaza 7000, 2nd Floor
Austin, Texas 78731