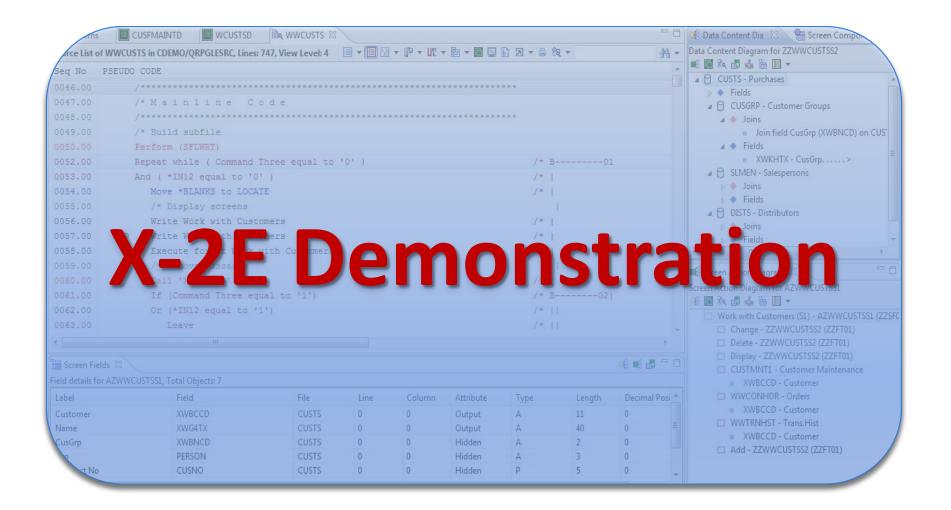
# X-2E Application Discover



## X-2E Professional

#### **X-Analysis Application Discovery**

• Cross-Referencing

Object/Variable/Field/Visual/multi-level

• Source Code Analysis

flow charts/pseudo code/interactive/color coded

Graphical Documentation
 structure charts/data flow/screen flow/internal

Data Model Analysis

foreign keys extraction/ERD/DDL export/constraints/DDS-2-DDL

Business Rules Analysis

business rules extraction/where used/annotation/rules narrative/process mapping

• UML Generation

Activity/Use case/Class diagrams

• Application Metrics

complexities/problems/application areas

- Entities & Relations
- Data Dictionary
- Interactive Functions
- Internal Functions
- External Functions
- Action Diagrams

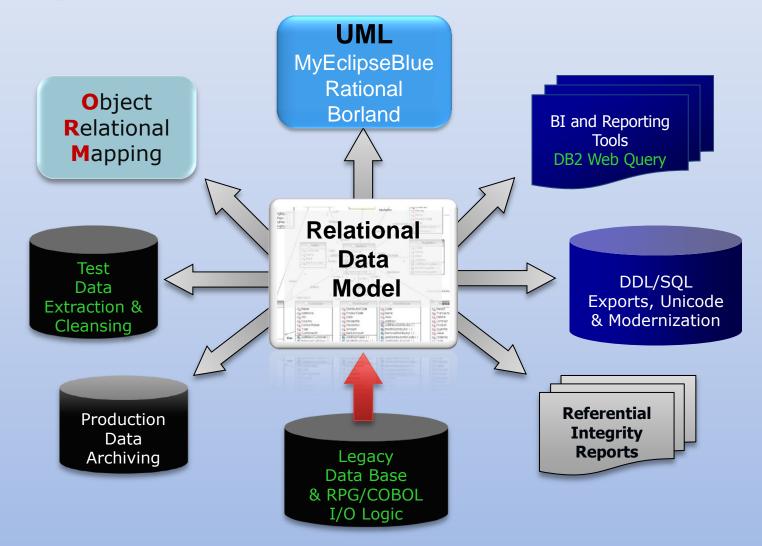


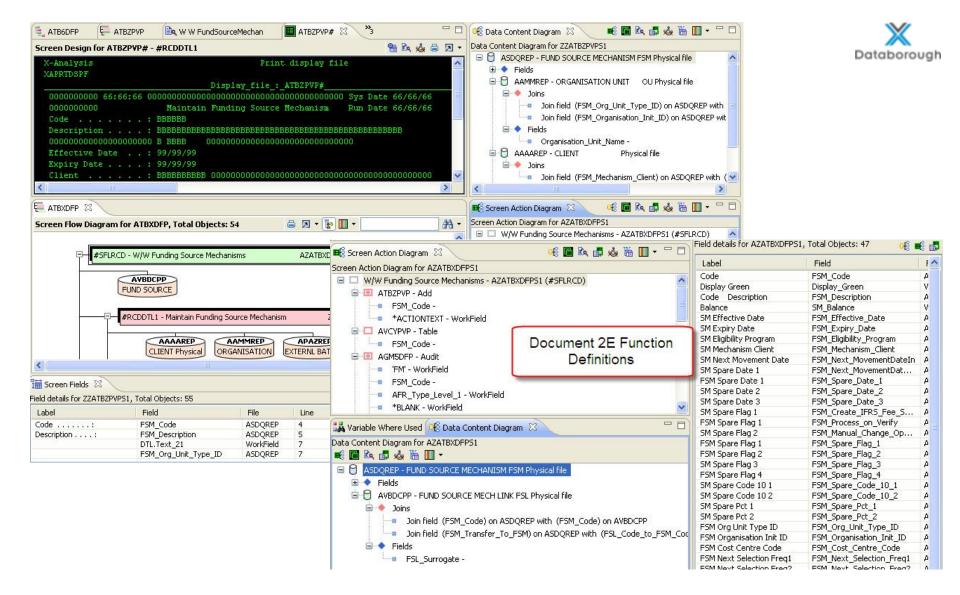


Relational Data Model	<ul> <li>Auto Extracted from Code/CA:2E</li> <li>Relational &amp; Physical</li> <li>Date Fields</li> </ul>
Business Rule Logic	<ul> <li>Validations/Calculations</li> <li>Summaries/Narratives/Annotations</li> <li>Indexed Database &amp; Mapped to Functions</li> <li>CA:2E Action Diagram Logic Extraction</li> </ul>
UI/Print Functions	<ul> <li>Screen Formats/Layouts/Fields/Files/Attributes</li> <li>Screen Actions Flow</li> <li>ORM Mapped to UI</li> <li>Conditional Field/UI/Flow Logic</li> </ul>

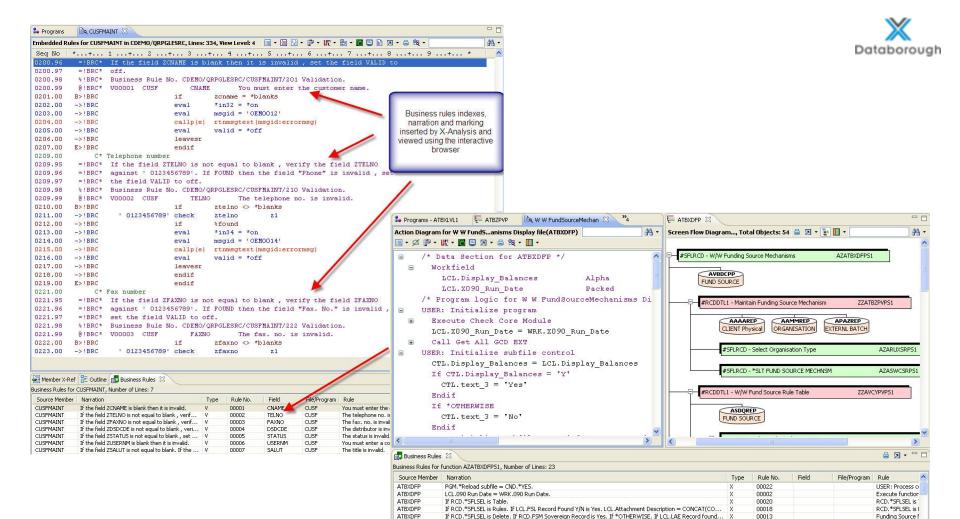
## **Application Discovery**

### **Using the Derived Relational Model**





#### **Design Recovery Documentation**



If RCD,\*SFLSEL is Change or Display.

If RCD.\*SFLSEL is Action=5.

00012

00019

RCD.\*SFLSEL is !

RCD.\*SFLSEL is

5

ATBXDFP

ATBXDEP

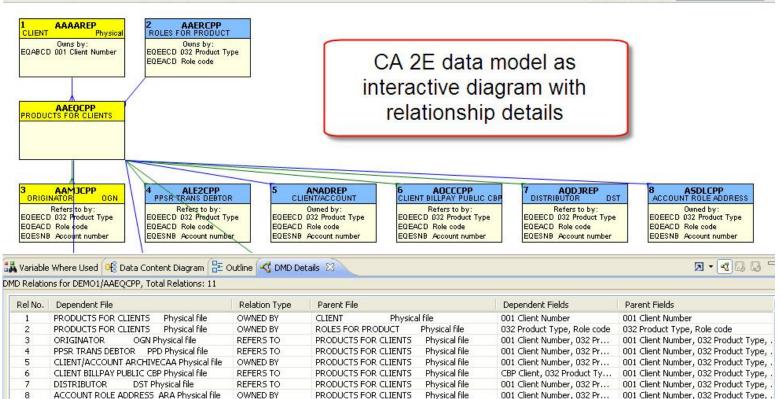
1

<b>Business</b>	Logic Ana	lysis
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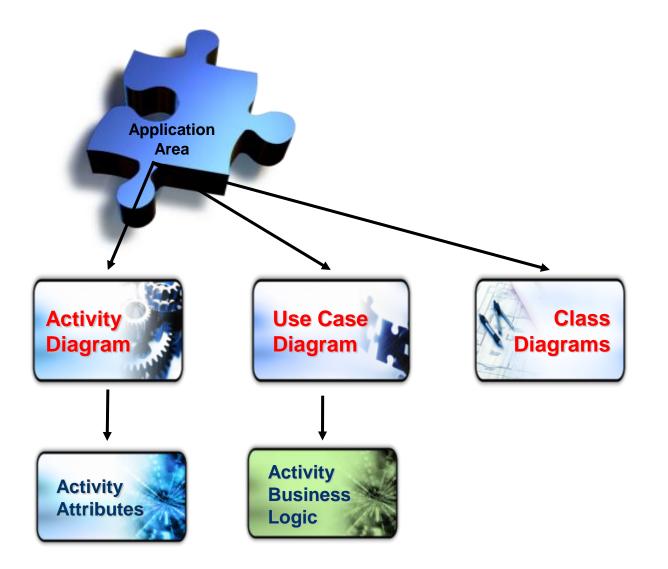


4

Data Model Diagram for DEMO1/AAEQCPP, Total Objects: 12

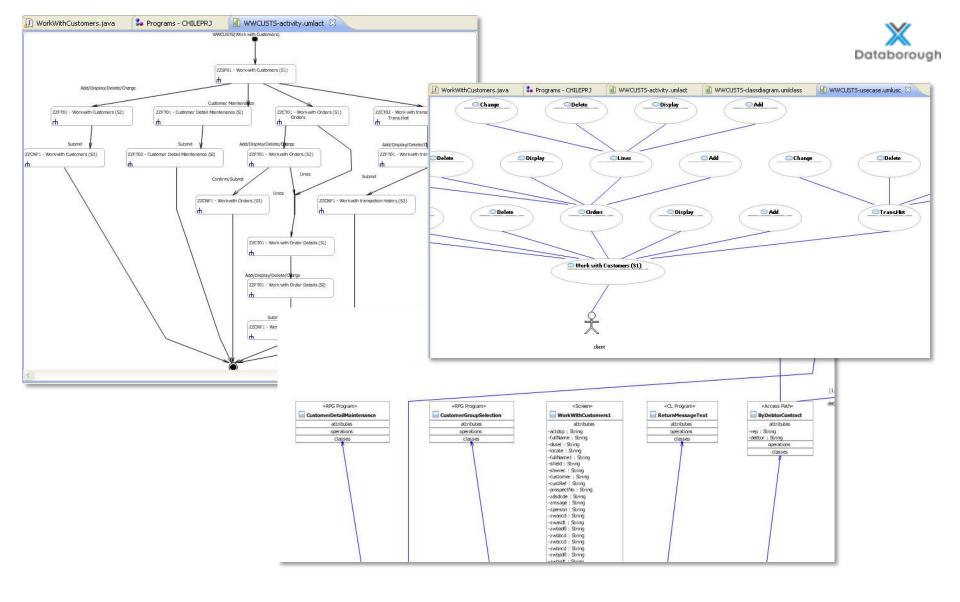


### **Data Model Analysis**





## **UML Diagrams & UML Extensions**



### **UML Diagrams S-Shots**



- Scientific Forensics
- System wide perspective
- •• Visualization
- Non Expert Inclusion
- Explicit Information
- Quality of Communication

## **Summary Benefits of Analysis**