

Analyze enables users to delve deeper into application flows and identify items for modernization, optimization, or reduction of technical debt. It provides dynamic application documentation, business rules analysis, and extraction, as well as identification of 12 types of business rules.



Problem

Technical debt within legacy applications is an ongoing and enormous challenge for many IT organizations. This is primarily due to dwindling or non-existent application subject matter experts and inadequate, expired, or non-existent application documentation.



Solution

AveriSource Analyze uses and extends the knowledge and insights gained through **AveriSource Inventory** and **Discover** products. **Analyze** provides more granular details within your application code and dependencies and helps you to identify business rules within and across programs (rule chaining) for documentation or extraction. **Analyze** enables you to accelerate analysis for the re-design and re-architecture or optimization of your legacy applications and ensure business rules are current and relevant to your business functions.

AveriSource Analyze is the industry-leading business rules extraction product enabling analysis for accelerated re-engineering, re-architecture, or rewrites. **Analyze** can assist when repurchasing or replacing applications with commercial-off-the-shelf (COTS) packages accelerating data migration planning and analysis, and with Business Rule Extraction for use in gap analysis comparing business functions and process flow in the packaged applications.



Code Block & File Comparison
Identify redundant code blocks and files across the application. Code blocks must be at le... [Read More](#)

Code Blocks 1279 Files 102

1279 Possible Code Redundancies

Overview		Code Block 1			Code Block 2				
#	SIMILARITY	DIFFERENCES	LANGUAGE	CODE BLOCK	FILE	BLOCK LINES	CODE BLOCK	FILE	BLOCK LINES
1	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
2	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
3	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
4	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
5	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
6	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
7	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
8	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	
9	100%	0	COBOL	9910-DISPLAY-L...	CBACT92C.AM	14	9910-DISPLAY-L...	CBACT92C.AM	

1 2 3 ... 62 63 64 ... 1-20 of 1279 results Show 20



Accelerate onboarding and application understanding with flow charts enabling drill-down to specific code for detailed analysis



Identify cloned or redundant code for consolidation to single routines or microservices, minimizing application maintenance errors and improving the speed and efficiency of development tasks



Identify dead code or unreferenced routines for elimination or documentation

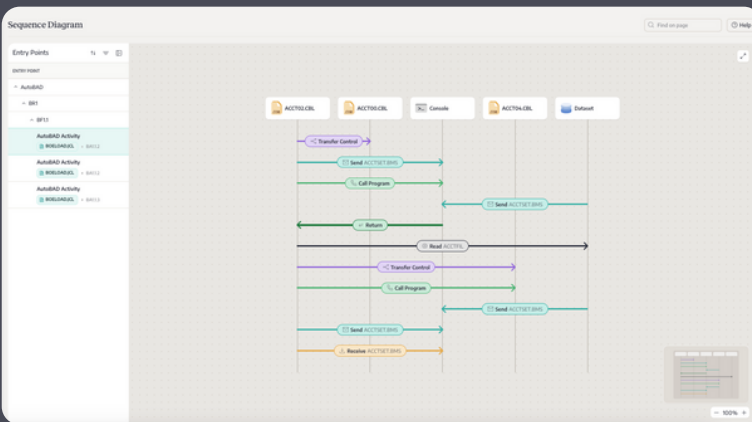


Identify code anomalies, such as largely nested complex conditional statements to improve code quality. Identify, analyze, and document business rules within and across programs (Rule Chaining), and for specific identifiers or variables (with understandable names defined in **Discover** Data Dictionary), Data Sources, or Data Structures (record layouts), and identifying code anomalies like hardcoded literals

Business Rule Overview What are business rules?

BUSINESS RULE TYPE	TOTAL RULES	PERCENTAGE
BUSINESS LIT FACT	1,559	2.84463%
TECHNICAL	42,116	76.84700%
BUSINESS LOGIC	111	0.20254%
OTHER VALIDATION	10,552	19.25372%
BUSINESS CRUD	163	0.29742%
BUSINESS LOGIC VALIDATION	8	0.01460%
BUSINESS SHARED FACT	272	0.49631%
BUSINESS SHARED VALIDATION	24	0.04379%
Totals	54,805	100.00000%

Total Rule Types: 8



Accelerate application understanding with dynamic documentation using Sequence Diagrams showing interaction between components, such as call chain flow, and with directional data flow for Input/Output (I/O) operations between components and datasets



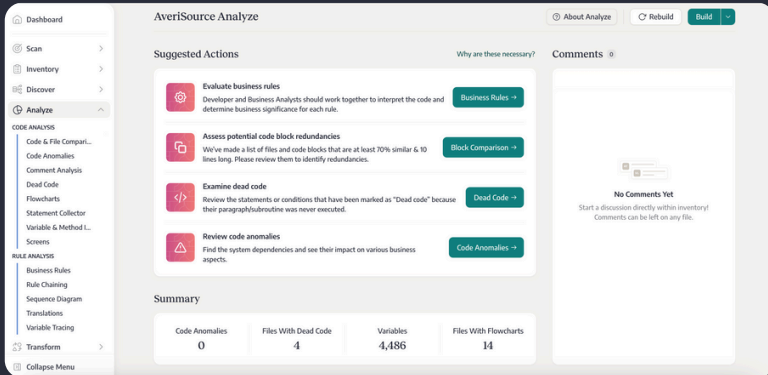
Trace variable rule activity within and across programs using Variable Tracing

Variable Tracing

See all the data transformation rules associated with certain variables in the code base.

4554 Variables	Data Transformation Rules for 100 Variables																								
<ul style="list-style-type: none"> ANALYZE Code Block Comparison Code Anomalies Comment Analysis Dead Code Flowcharts Statement Collector Variables & Method L. Variables 	<table border="1"> <thead> <tr> <th>VARIABLE NAME</th> <th>SOURCE FILE</th> <th>DATA TYPE</th> <th>DATA TRANSFORMATION RULE</th> </tr> </thead> <tbody> <tr> <td>ACTXACT01</td> <td>ACTXACT01</td> <td>NO</td> <td>...</td> </tr> <tr> <td>ACTXACT02</td> <td>ACTXACT02</td> <td>NO</td> <td>...</td> </tr> <tr> <td>ACTXACT03</td> <td>ACTXACT03</td> <td>NO</td> <td>...</td> </tr> <tr> <td>ACTXACT04</td> <td>ACTXACT04</td> <td>NO</td> <td>...</td> </tr> <tr> <td>ACTXACT05</td> <td>ACTXACT05</td> <td>NO</td> <td>...</td> </tr> </tbody> </table>	VARIABLE NAME	SOURCE FILE	DATA TYPE	DATA TRANSFORMATION RULE	ACTXACT01	ACTXACT01	NO	...	ACTXACT02	ACTXACT02	NO	...	ACTXACT03	ACTXACT03	NO	...	ACTXACT04	ACTXACT04	NO	...	ACTXACT05	ACTXACT05	NO	...
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ACTXACT04	ACTXACT04	NO	...																						
ACTXACT05	ACTXACT05	NO	...																						

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Access Code Analysis and Rule Analysis reports through an intuitive and interactive dashboard with step-by-step instructions, guided help and suggested actions

Implementation Requirements

Hardware

- ✓ 1 server (2 if client wants DB installed separately)
- ✓ 8+ CPU cores (per server)
- ✓ 64+ GB memory (minimum, per server)
- ✓ 500 GB storage (minimum, per server)

Software

- ✓ Windows Server (v2012 R2 or greater)
- ✓ .NET Framework (v4.7+)
- ✓ IIS (v8+)
- ✓ MS SQL Server (v2016+)
- ✓ SQL Server Management Studio (SSMS), compatible version with DB server
- ✓ Microsoft Word (v2016+)
- ✓ Microsoft Excel (v2016+)
- ✓ Chrome Web Browser (latest)

Our mission is to help you accelerate your application analysis and modernization journey. For sales inquiries and to book a demo of the Averisource Platform, email us at hello@averisource.com or click the button below.

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For more information about the use of **Averisource Analyze**, including application analysis, business rule extraction, AI-powered code transformation, application modernization roadmap assessment, supported platforms, languages, and databases, visit our website.

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