Amdocs (Astadia) Mainframe Modernization

Amdocs End-to-End Application Modernization Best Practices

July 18, 2025

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Agenda

1. Introductions

2. Intent Discovery

3. Amdocs (Astadia) Overview

4. Assessment Overview

5. Modernization Options

6. NextGen Rearchitecture

7. End-to-end Services

8. Success Stories

9. Next Steps

Intent Discovery

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amdocs

~30,000
Employees

Our solutions impact more than
3 billion
people around the world

~90
Countries

~400
Customers globally

GenAI
led organization

$5B
FY24 Revenues, Up 2.7% YoY

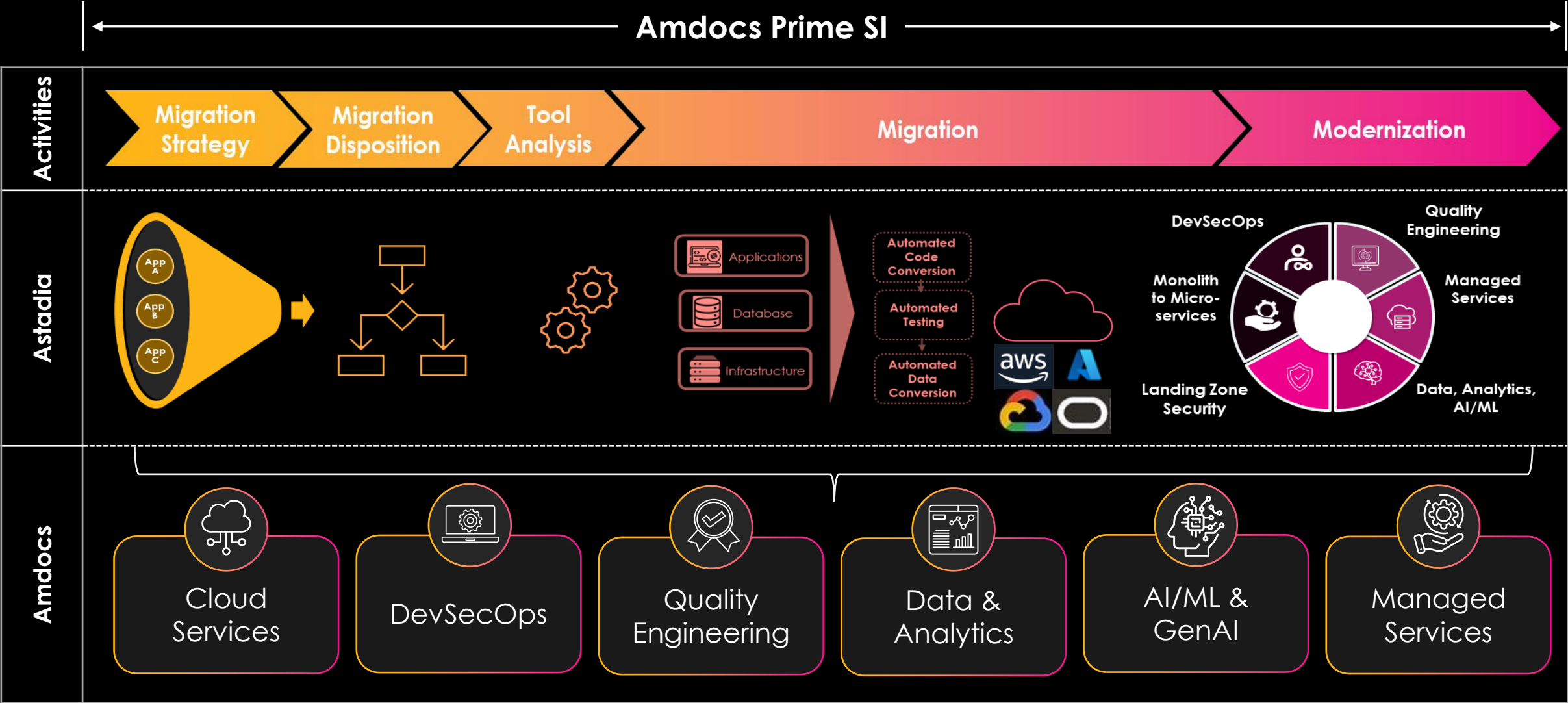# Global Customer Footprint

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Mainframe Modernization

The Amdocs proposition

Using Agile methods, DevOps, automated conversion and testing, and cross-studio engagement as a foundation for fast, efficient, reliable, end-to-end application modernization

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Amdocs delivers end-to-end modernization program execution

Market Leading Mainframe Modernization Vendor

Some of our clients

ISG 2025 report names Astadia as a market leader

Best Banking Infrastructure Platform- 2025 Fin Tech Award

300+
Successful Projects

95%
Mainframe Projects

26+yrs
Average consultant experience

97%
Success Rate

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Assessment Overview

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Assessment Definition

Definition:
> Assessments identify and analyze the current state legacy requirements and issues of an application portfolio and its execution environment, and determine the appropriate patterns, methods, costs, and timelines for modernization, deployment, support and ongoing management in a target environment.

Result:
> Assessments provide a roadmap to accomplish modernization goals and resolve legacy issues.

Benefits include:
- Fixed price and duration
- Focused workshops
- Current state findings
- Disposition analysis (Optional, as needed, in parallel)
- Target state recommendations
- Modernization project pricing

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Modernization Assessment & Discovery

Framework
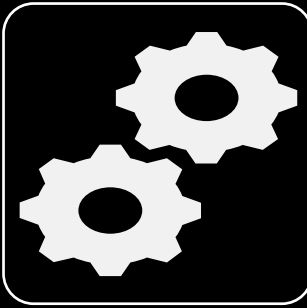
Technical assessment

- Code and data access pattern analysis
- Platform utility & 3rd party product mapping
- Environment workshops

Business discovery

- Operational workshops
- Disposition analysis (optional)
- Vendor mapping

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Assessment Timeline

Kickoff ★ — Phase 0 Prerequisites — Phase 1 Inventory — Phase 2 Discovery — Phase 3 Analysis — Phase 4 Planning — ★ Presentation

Typical duration: 8-12 weeks
(from Phase 1, dependent on portfolio size, technologies, tooling, and dispositioning requirements)

Phase 0 – Prerequisites, Onboard, Plan: Typically, ~1 month prior to project (client dependency)

Phase 1 – Inventory: ~1-2 weeks (depending on code volume, readiness, and tooling)

Phase 2 – Discovery: ~2 weeks. Interviews and inventory report reviews.

Phase 3 – Analysis: ~2-4 weeks. Determine disposition(s), map legacy to target, identify issues & resolutions

Phase 4 – Planning: ~2-4 weeks. Build Findings & Recommendations document, generate migration pricing

At the conclusion of the assessment, an executive presentation is schedule and conducted to report the findings & recommendations and review the modernization pricing.

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Assessment Resource Requirements

Client Role	Responsibilities
Executive Sponsors	Provide executive leadership, escalation points and Steering Committee decisions
Program / Project Manager	Oversee timeline, budget, and coordination
Application Owners / SMEs	Convey functional and technical aspects
Operations, Data, and Security SMEs	Convey operational, data, and security requirements
IT Leadership	Identify maintenance, support, execution and management processes & issues

Amdocs Role	Responsibilities
Executive Sponsors	Provide executive leadership, escalation points and project decisions
Program / Project Manager	Oversee timeline, budget, and coordination
Modernization Architect	Define strategy, standards, modernization patterns
Enterprise / Cloud Architect	Define strategy, standards, deployment architectures
Technical Lead / SME	Assess source code, integrations, tech stack
Business Analyst	Capture business processes, value, dispositioning info, provide project support
Security Architect	Define strategy, standards, risks, guidelines and options

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Assessment Process

Planning

- Initial meeting defines prerequisites and RACI responsibilities

- Executive sponsorship and stakeholders are identified and interviews scheduled

- Checkpoints report onboarding, infrastructure, and software readiness

- Resource requirements defined and assigned

- Project plan finalized

Execution

- Inventory: Using Astadia's TurnStone, we will parse collected code to identify application architecture and sizing

- Discovery: Facilitate in-depth workshops and interviews with SMEs to gather data, while inventory reports are reviewed

- Analysis: Provide a preliminary design and plan for migration, map and define target replacement of legacy technologies, capture performance and storage requirements, conduct disposition analysis

- Planning: Build a findings & recommendations report providing insights from the legacy systems and the go-forward roadmap for the target goals along with a Rough Order of Magnitude (ROM) of the cost and time for the migration services and tools

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Assessment Process (cont'd)

<u>Workshop(s)</u>

- Workshop & questionnaire driven for each application (set)
- Provide insights on non-technical application environment, support, and management concerns

<u>Technical evaluation path</u>

- Application technology
- Application "secret sauce" or intellectual property to be maintained
- Associated license and support costs
- Skills/resource analysis
- Application volatility, update timelines and process, release methodology and timeframes
- DevOps review
  - Testing coverage and automation
- Operations considerations
- Service level agreements
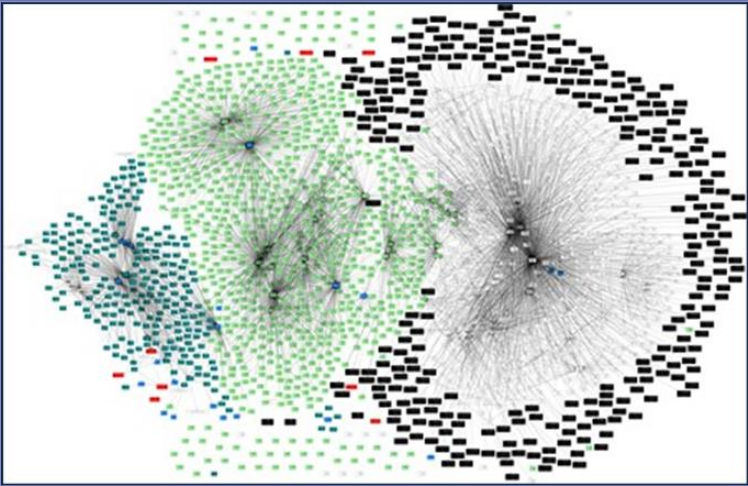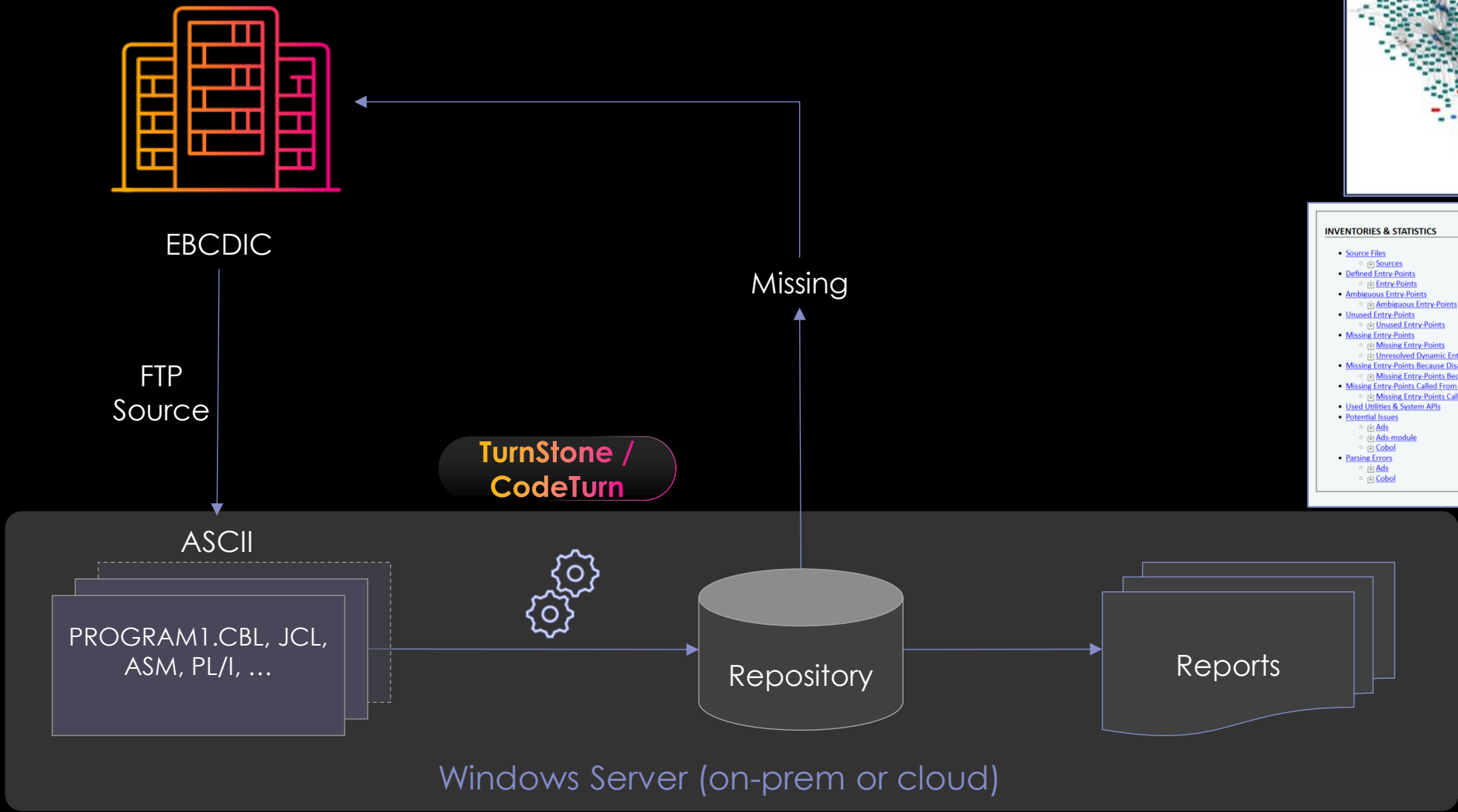
<u>Business evaluation - Dispositioning</u>

- Fit to current business needs
- Expected change to business process
- Amount of manual process around application(s)

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Assessment Process (cont'd)

Dispositioning – Key areas for analysis and scoring (where applicable)

- Business goals, alignment, and value
- Technical health
- Organizational readiness and constraints
- User and stakeholder needs
- Cost and ROI analysis
- Risk, compliance and security
- Usage, dependencies and integration
- Future viability
- Timelines and conflicting projects
- Resource allocation and constraints
- Environmental impact and sustainability

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Code Assessment Process

EBCDIC

FTP Source

ASCII

TurnStone / CodeTurn

Missing

PROGRAM1.CBL, JCL, ASM, PL/I, …

Repository

Reports

Windows Server (on-prem or cloud)

Assessment Deliverables

- TurnStone code analysis reports
  - Inventory reports for COBOL (CICS, SQL), BMS, JCL, …
  - Missing reports for entry points, includes, copybooks, resources
- Findings and Recommendations Report
  - A solution matrix
  - Description of the current landscape, AS IS
  - Workshop results
  - Portfolio (or application) disposition results
  - Description of the target TO BE landscape, including reference architecture
  - Preliminary design and plan for a migration
- Rough Order of Magnitude of the cost and time for the migration services and tools provided by Astadia

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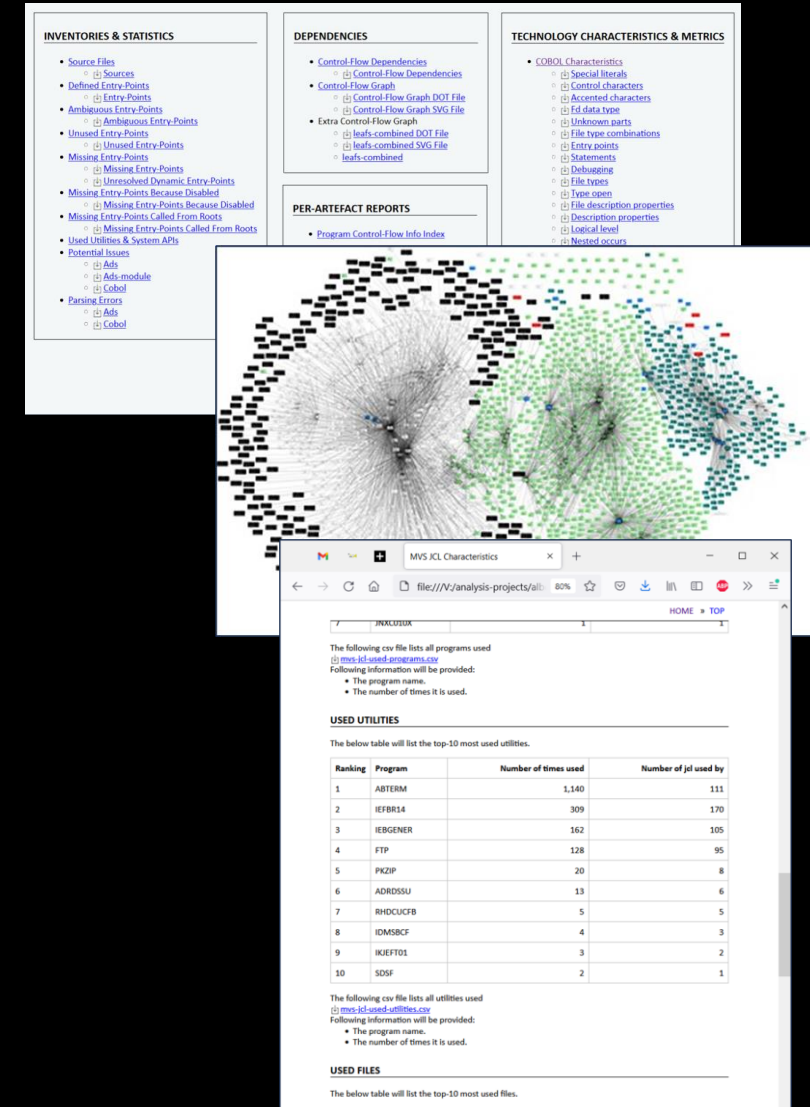
Assessment Assumptions

- Astadia will have access to Client staff who understand the application landscape and who know where all components are located and how they can be extracted.

- Astadia will not be responsible for delays caused by the unavailability of Client personnel, hardware, or software environments necessary to perform required tasks.

- Client will respond within three (3) business days to any Astadia request for data, information, or other artifacts required to complete this project.

- The Assessment can be performed in the Astadia Cloud environment or on a Client environment. If on a Client environment, the Client costs for hardware, software, data, or other expenses that may be incurred for the completion of this assessment are not included in the cost estimate of this proposal and are not the responsibility of Astadia.

- All code and data artifacts requested will be delivered to Astadia via a secure FTP site prior to project initiation (if project performed in Astadia Cloud environment). If project performed within client environment, all software will be installed and configured, code collected and available, and Astadia project team onboarded for access to project environment prior to project initiation (Phase 0).

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Modernization Services

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Amdocs Modernization Studio (Astadia) Game Changers

- Automated refactoring ⭐
- Agentic AI rearchitecting / reimagining ⭐
- Infrastructure & application management

- Replatforming IBM mainframes
- Package implementation
- Full service with NO vendor lock-in

- 100% automated code refactoring
- Highly scalable (numerous Fortune 100 references at scale)
- Cloud Certifications & CSP Modernization Competency partner
- 100% functional equivalence

- DevOps CI/CD pipeline & ticketing integration
- Automated testing (online & batch)
- Target Java or C# stack
- Aggressively merging GenAI with proven IP

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What's needed for modernization at scale?

From:	To:
COBOL	Java
	C#
Natural	Java
	C#
IDMS / ADS	COBOL
	Java
	C#
Assembler	Java
	C#
JCL	PowerShell
	Bash
PL/I	Java
	C#
CICS BMS	
IMS TM MFS	XML/HTML
IDMS TM Maps	
Natural Maps	

AUTOMATION

Legacy Source Code

Legacy Data

CodeTurn

DataTurn

Converted Source Code

Relational Data

TestMatch

DataMatch

Source Code

Data

Native Target Application

Target Platform
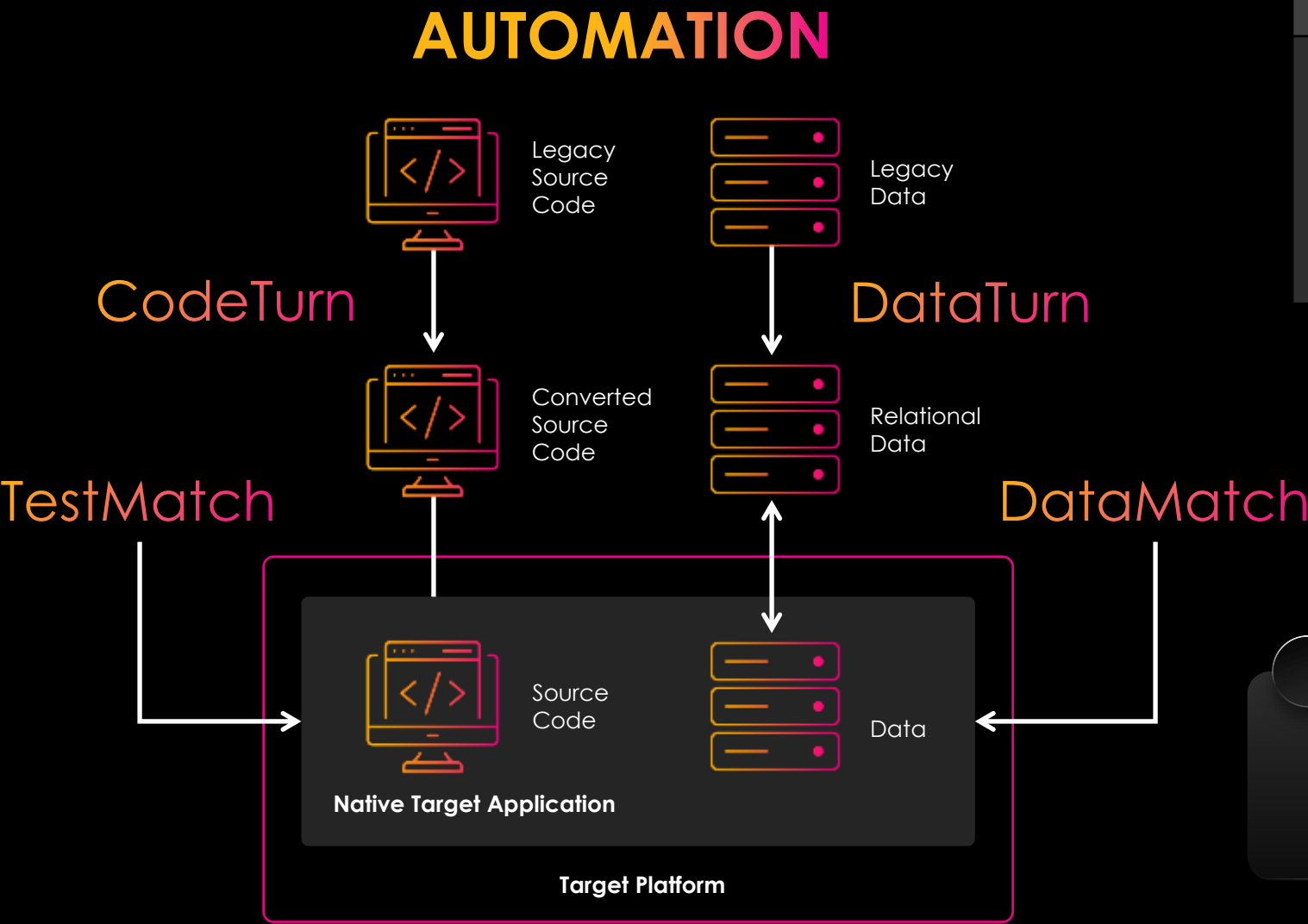
From:	To:
Db2	Db2 z/OS
VSAM	Db2 LUW
IDSM DB	PostgreSQL
IMS DB	SQL Server
Adabas	Aurora
Sequential	Oracle

Development Tools

CobolBridge
MapEdit

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Target Online Architecture

Client Tier

Cloud Managed Nodes

Screen Scraping / Scripting Software

Terminal Emulator

TN3270
TN9750

Presentation Service

Amazon CloudWatch

Autoscaling

Kubernetes Pods

Amazon Elastic Kubernetes

Metric Service

Keda

Amazon Relational Database Service

Browser
HTML, Javascript, CSS

HTTP(S)

Queues

Converted Applications

Support Libraries

Converted Application Data

CTG
Entire/X
TCP/IP
MQ

Interface Service

External Applications

Elastic Load Balancing

Automated Testing

TestMatch

DataMatch

Automated Transformation

CodeTurn

DataTurn

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CodeTurn Design Goals

Maintainable

Concise, no code bloat

Original comments retained

Structurally similar

Native

Pure Java/C#, no magic

Can call or be called by any other Java/C#

Support lib not needed for future development

Automatic

100% automatically generated

Typically <0.01% changes integrated in automatic workflow

ISO-Functional

Converted application behaves exactly the same as the original application

Enables automatic compare

CodeTurn

From:	To:
COBOL	Java
	C#
Natural	Java
	C#
IDMS / ADS	COBOL
	Java
	C#
Assembler	Java
	C#
JCL	PowerShell
	Bash
PL/I	Java
	C#

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Data Migration Process (e.g. VSAM)
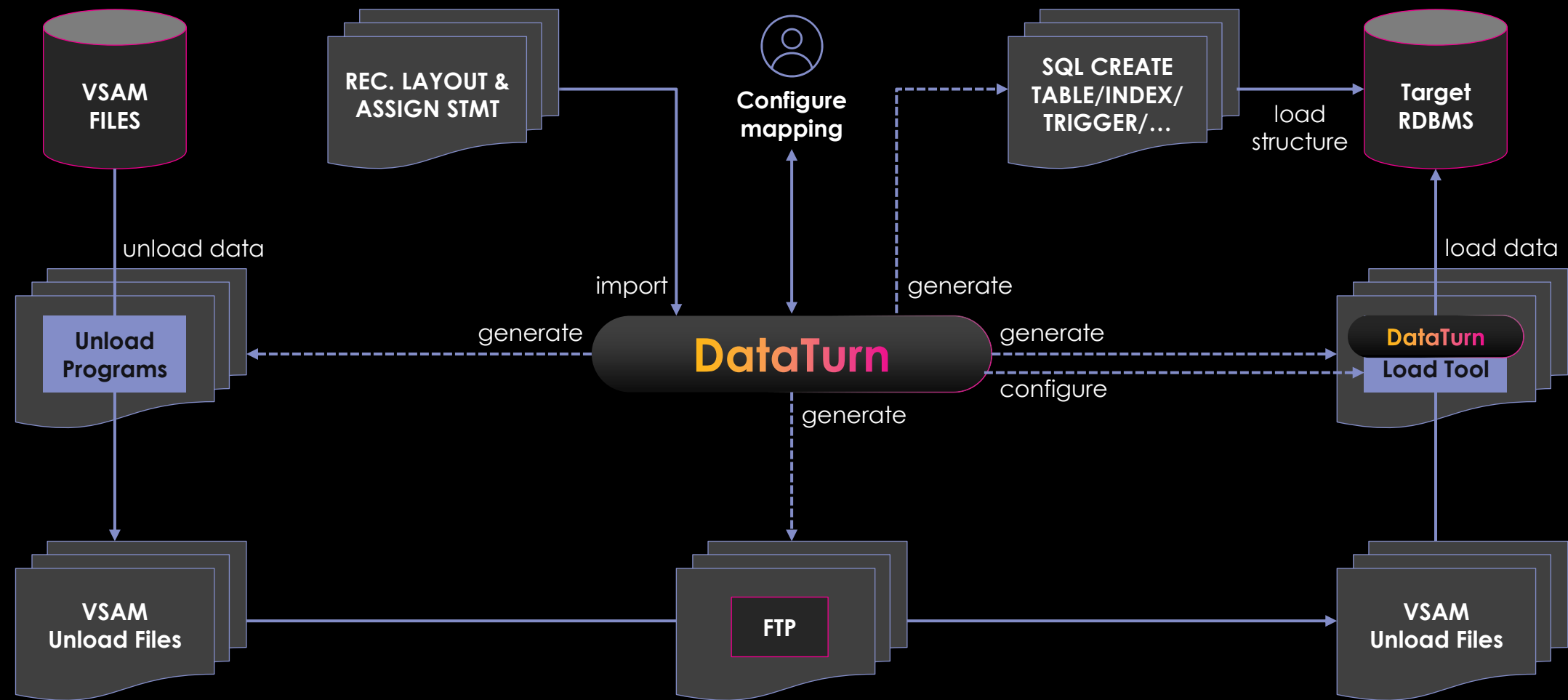
TestMatch : Automated Online Testing

- Record test cases for automated replays

- Create Ignore Rules for timestamps

- Handles altered applications, technical differences like sort sequence

- Resets/restores database state for iterative test cycles

- Conduct dynamic tests using variable data

- Controllable delays for user "think time"

- Conduct performance and load testing

- Integrates with CI/CD pipelines and ticketing systems
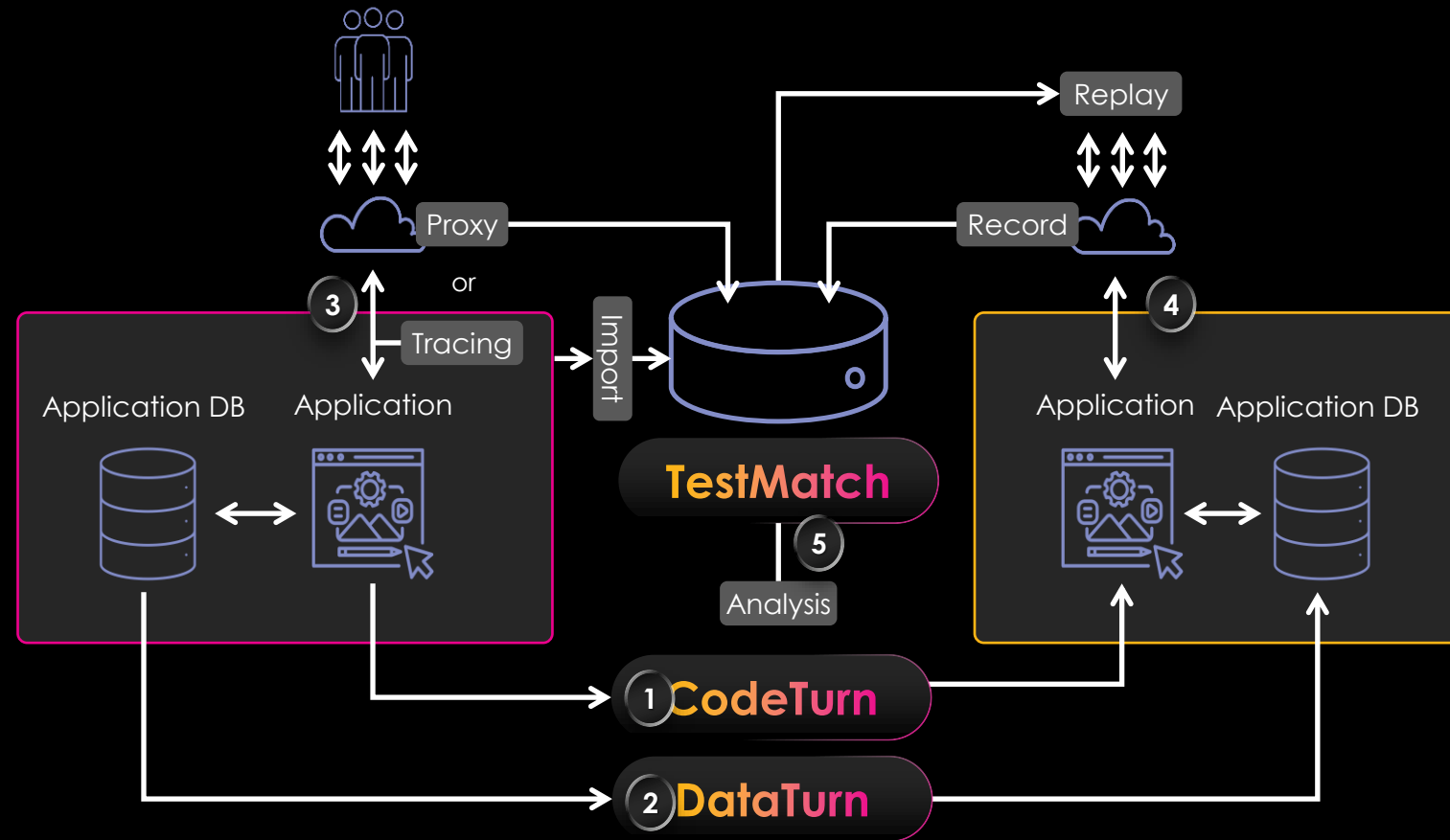
TestMatch : Automated Online Testing
Terminal messages
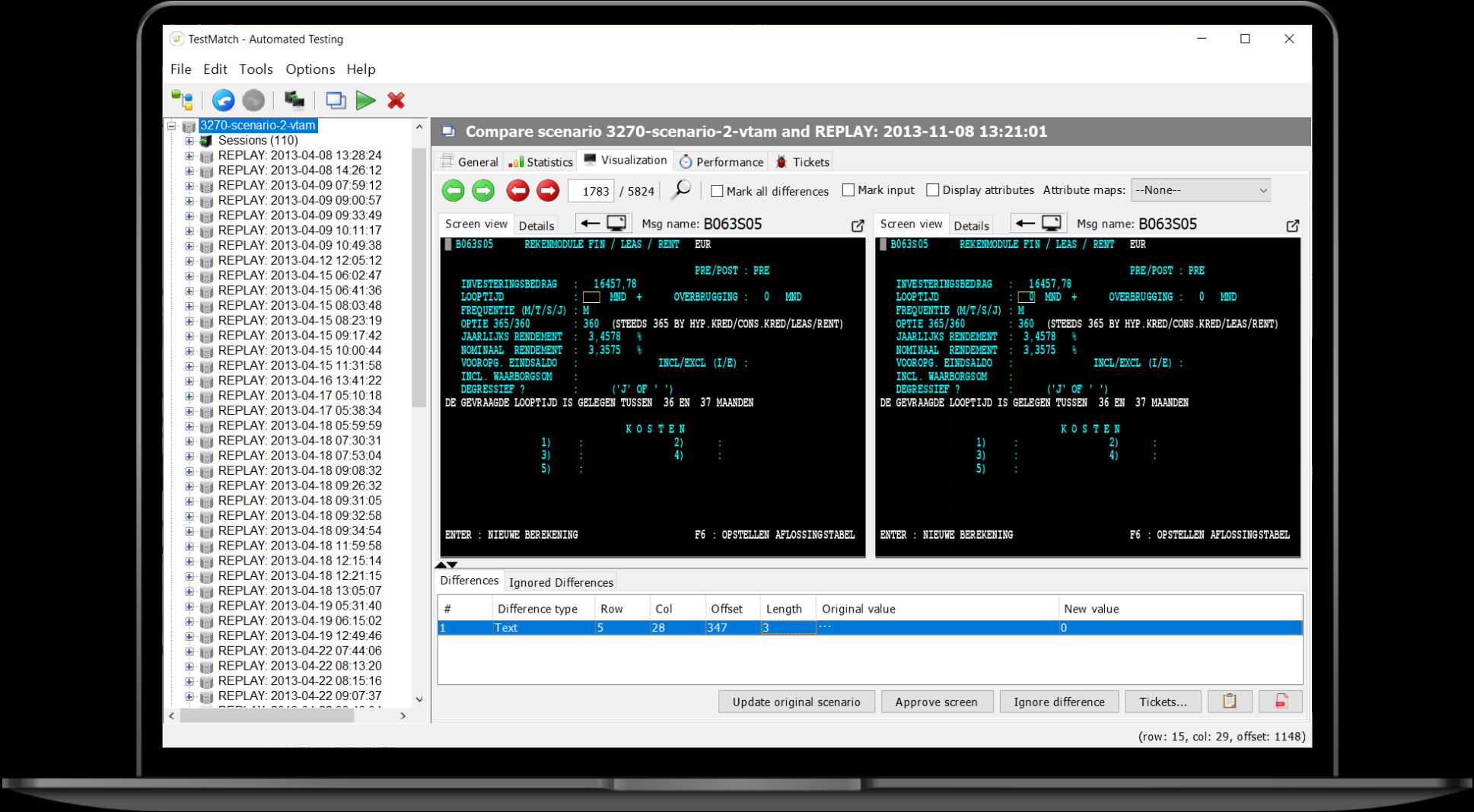
TestMatch : Automated Online Testing

MQ / data buffer messages
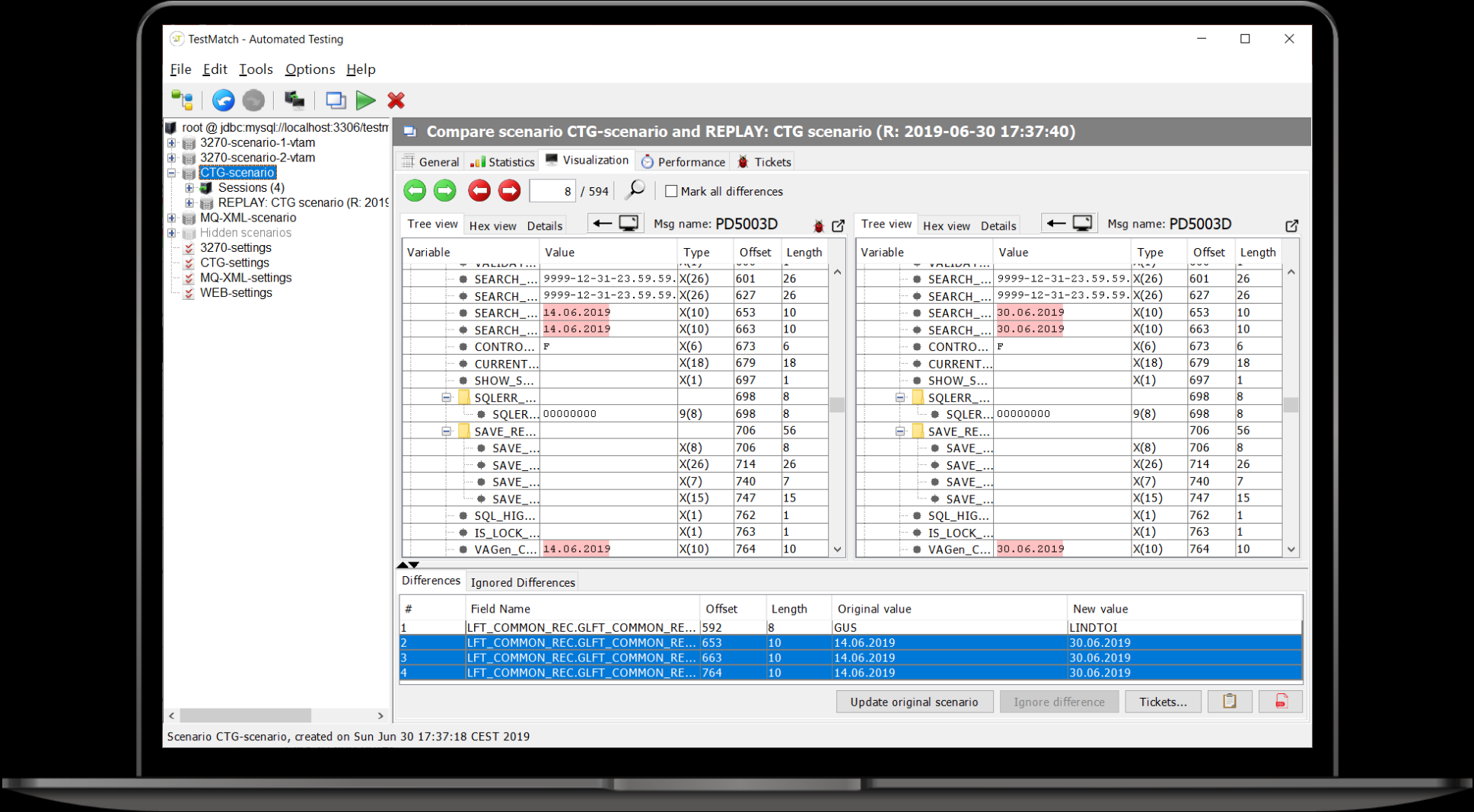
TestMatch : Automated Online Testing

Performance: Response, duration & throughput comparison
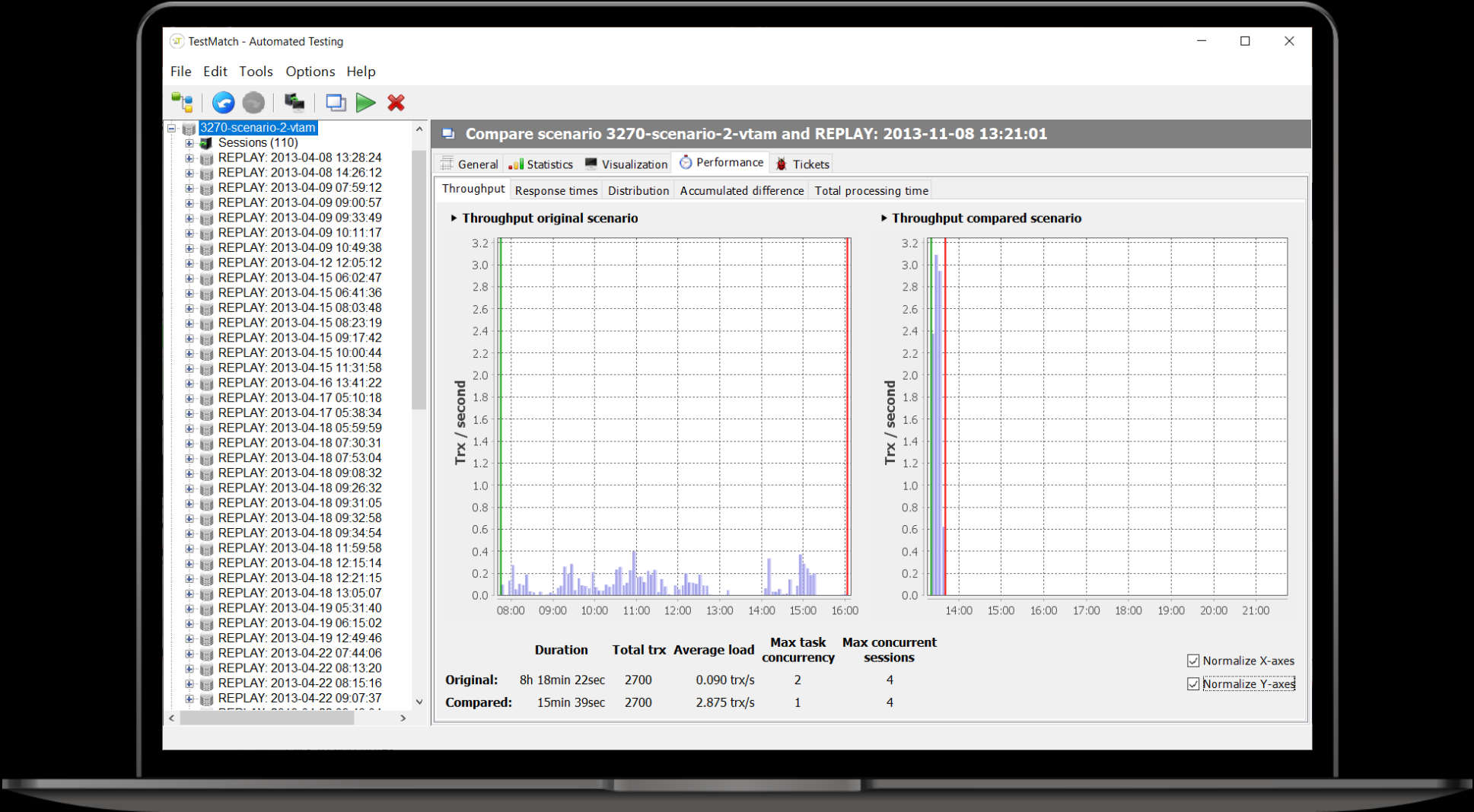
TestMatch : Automated Online Testing
Transaction / screen coverage
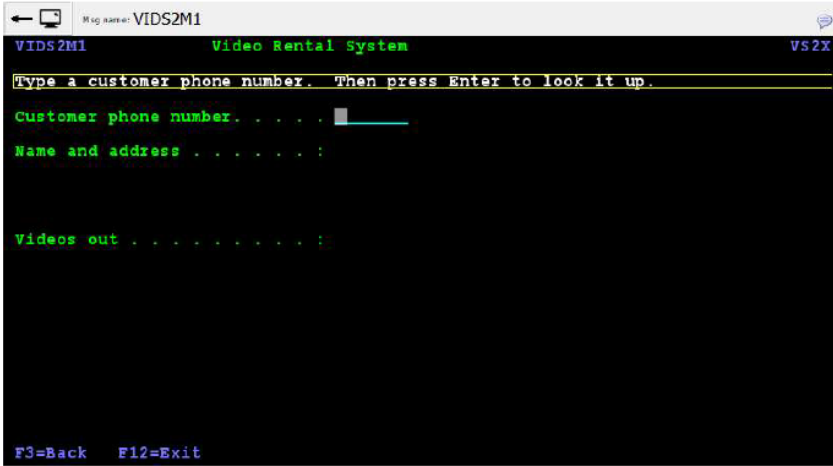
TestMatch : Automated Online Testing
Test issue: Exportable Difference Report

Information Security Level 2 – Sensitive. © 2024 – Proprietary & Confidential Information of Amdocs

DataMatch: Automated batch testing

DataMatch is used to confirm batch processing occurred correctly by ensuring accuracy of data was updated

Validate **iso-functional behavior** of migrated batch jobs and data intensive online applications

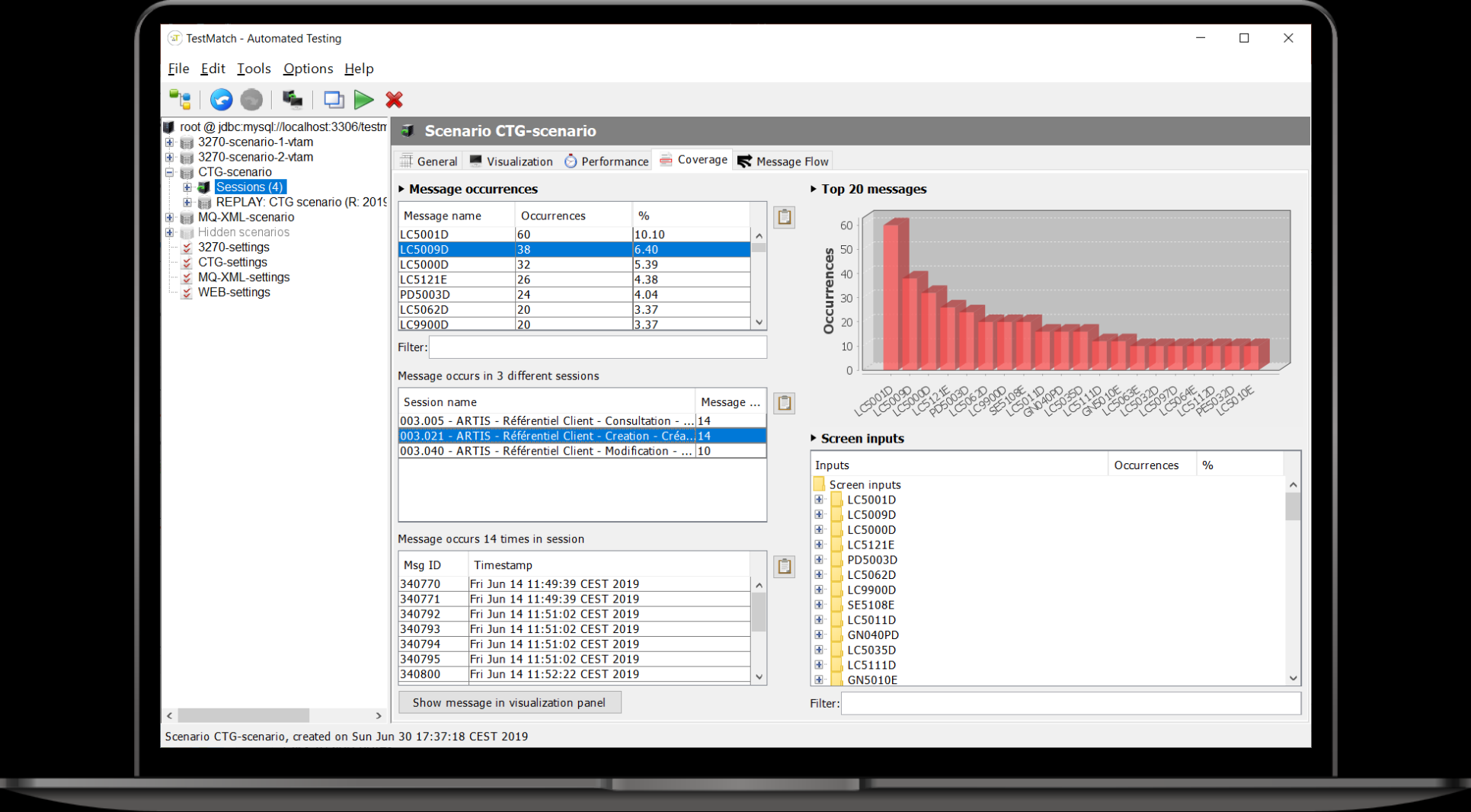**Three-way** compare of database states on source and target platforms: 1: before 2: after/reference 3: after/actual

Integration with **ticket tracking systems** to report and follow-up on detected differences

Highly configurable: what tables to compare, what key-ranges, what columns

Can be **scripted**, e.g. start comparing as soon as job complete

Can be integrated in **CI/CD pipelines**

DataMatch

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DataMatch

Legacy Data Store "Before" → Original Batch job → Legacy Data Store "After"

Original Platform

Target Platform

DataTurn   CodeTurn   DataTurn

Relational DB "Before" → Converted Batch job → Relational DB "After" (Actual)   Relational DB "After" (Reference)

3-way compare

DataMatch

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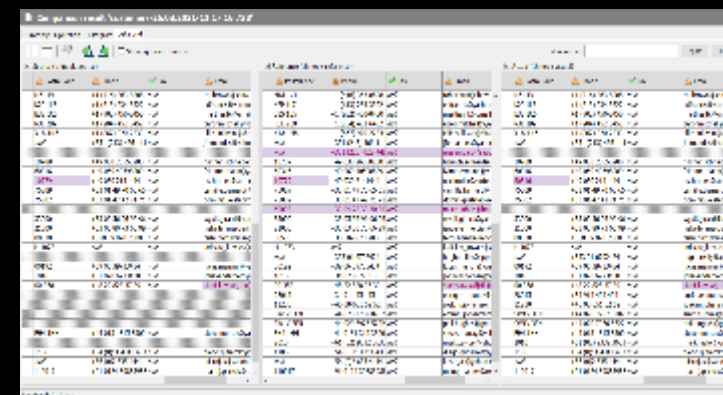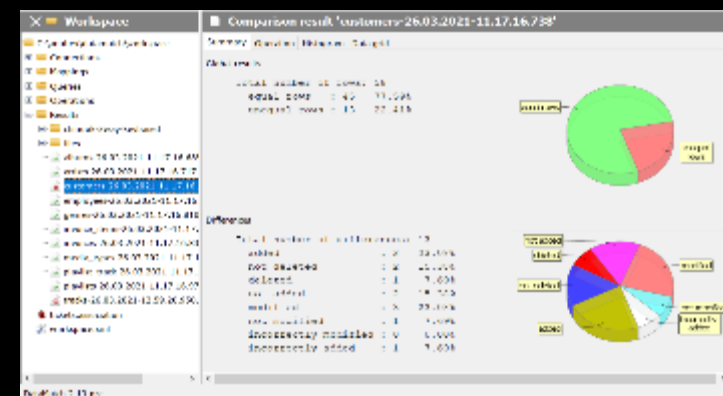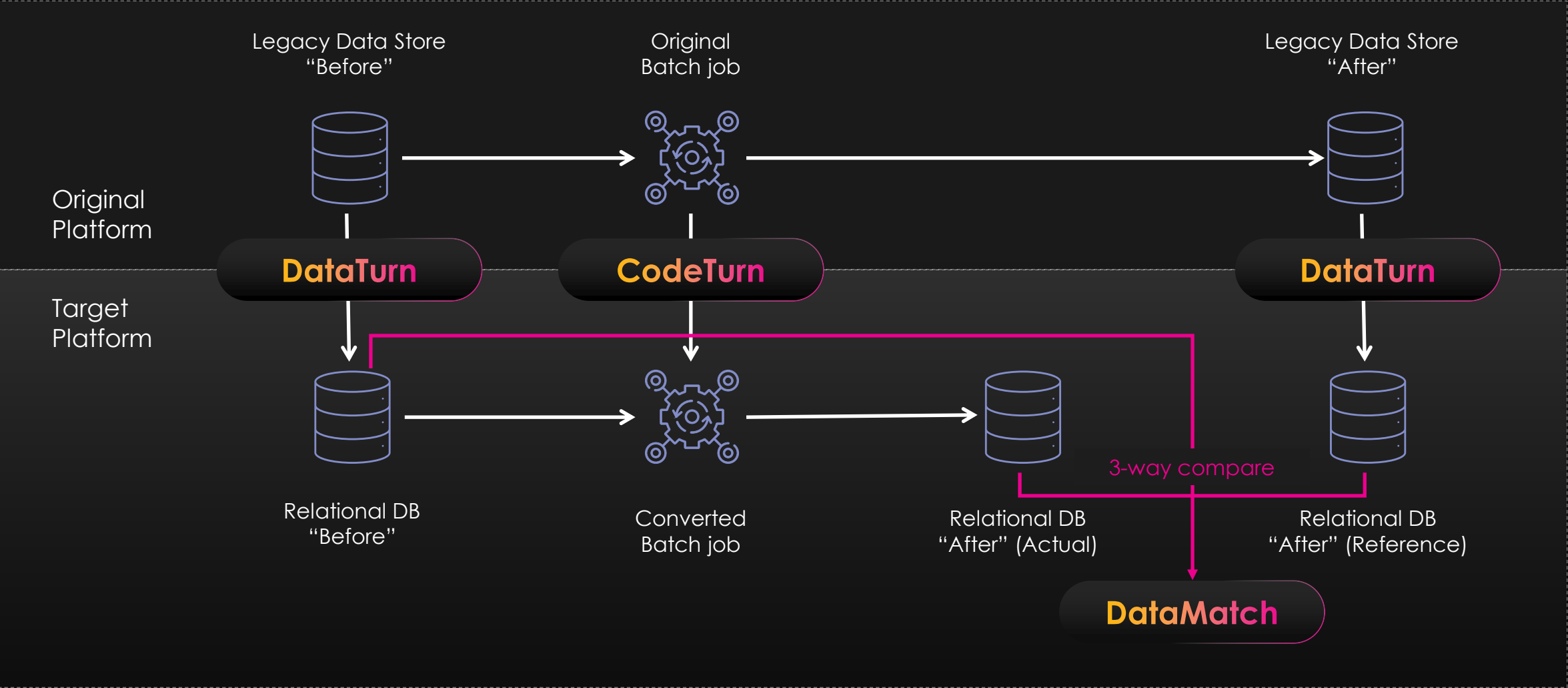
FastTrack Factory Methodology

The FastTrack Process: Modernizing at scale

Automatic Analysis Questionnaires Workshops

Legacy Application

GO LIVE

Migrated Application

Agile, Automated, Pod-based, Scalable Methodology for Repeatable, Predictable Results

0

1

2

3

4

5

Pre-migration assessment
- Establish scope, strategy, roles & responsibilities
- Establish project plan
- Legacy documentation

Factory certification
- Target data model defined & data migrated
- Automated refactoring
- Migration Tools parameterization
- Establish coherent codebase
- 100% compilable output code

Factory exit
- Migration Tools customization
- Automated refactoring
- Automated testing
- Preparation of Integration Topics

System integration test
- Application like-for-like
- Performance test and tuning
- Semi-automated refactoring
- 1:1 tests current and future platform

User acceptance test
- Operational use cases correct
- Periodical use cases (day end, year end, etc.) correct

Code freeze/ Final data migration

Checkout — Process Snapshot — Analyze Snapshot — Generate Analysis Data — Generate Reporting

Cloud DevOps CI/CD Pipeline

Checkout — Convert Snapshot — SAST/SCA — Compile — Build ACE Artifact — SBOM — Containerize & Push to Registry

Registry Maintenance — Promotion — Deployment — Testing — Notification

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NextGen Rearchitecture: Transformation intelligence for next-gen applications - TINA

Rearchitecting to microservices

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Transformation intelligence for next-gen applications

A digital consultant designed to accelerate the development journey from a refactored application to a new rearchitected application using microservices

Tina

Understand & document refactored applications

Extract business functionality

Interactive ChatBot for developers
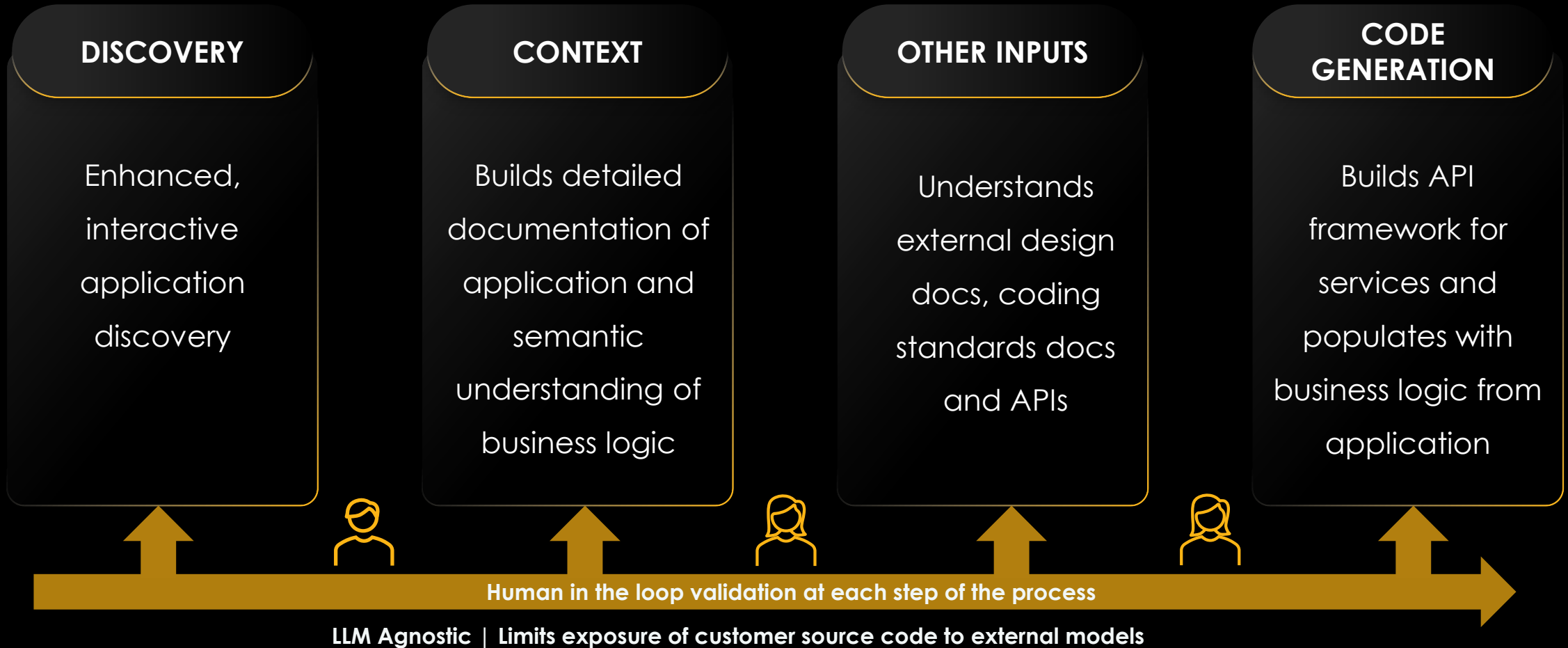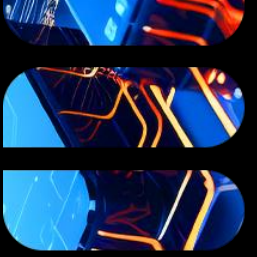
Respond to request for documentation and developing specifications for APIs and new micro services capturing relevant business functionality for specific use case

- Provides an Agent interface to Astadia's classic discovery and refactoring tools
- Important for integrating into other Agentic Frameworks, i.e., AWS Transform, Azure Copilot, GCP Gemini

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Astadia Modernization Agent & Code Assistant

Specifically designed to provide modernization workflow

DISCOVERY

Enhanced, interactive application discovery

CONTEXT

Builds detailed documentation of application and semantic understanding of business logic

OTHER INPUTS

Understands external design docs, coding standards docs and APIs

CODE GENERATION

Builds API framework for services and populates with business logic from application

Human in the loop validation at each step of the process

LLM Agnostic | Limits exposure of customer source code to external models

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The Journey from Mainframe to Microservices

Mainframe Transformation Options

Rearchitecting to a Business Domain Architecture

Mainframe Applications → Rewrite → Microservices

Pattern 1

Mainframe → **1** Refactor → **2** Go into production → **3** Rearchitect → Microservices

Pattern 2

Mainframe → **1** Refactor → **2** Rearchitect → Microservices

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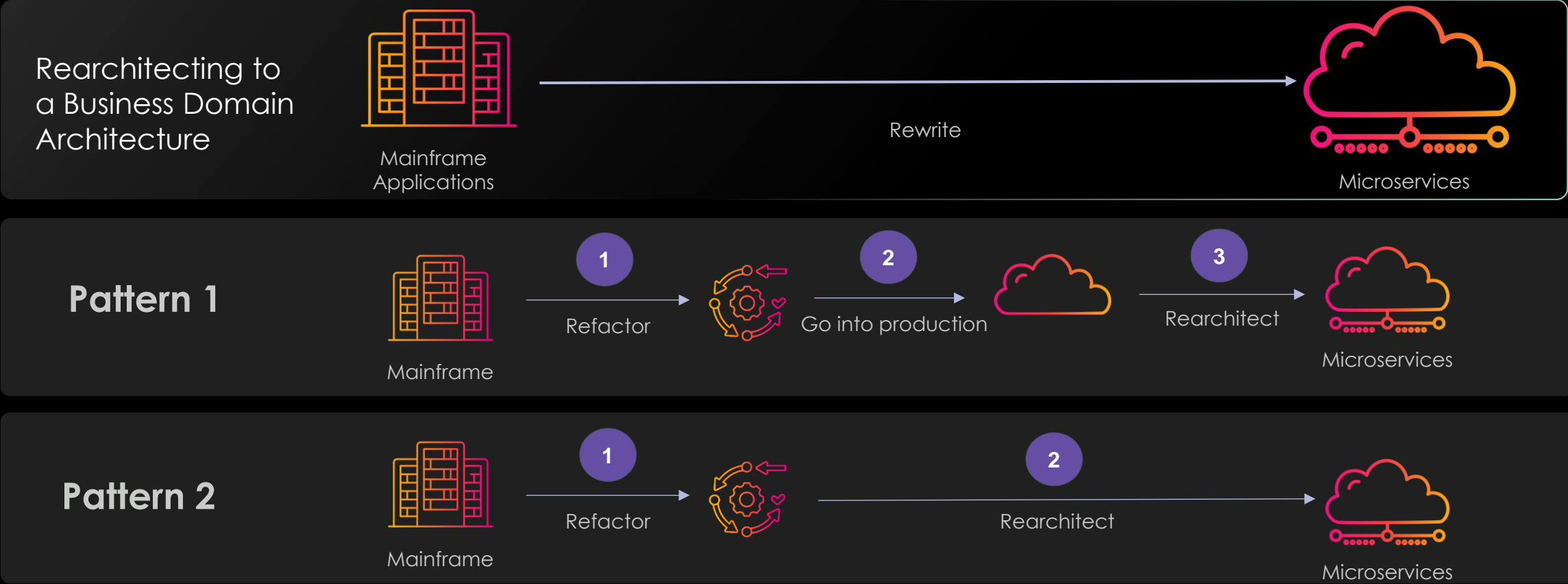
Tina architecture and characteristics

- Agentic workflow processes for discovery, documentation and code generation

- Ensures the quality of the input and output

- Generates predictable, repeatable, scalable workflows

- Provides robust error handling with automatic retries

- Constrains the LLM to execute the same operations in a repeatable, consistent manner

- Overcomes the inherent problems of GenAI (output quality, hallucinations, completeness, repeatability, ...)
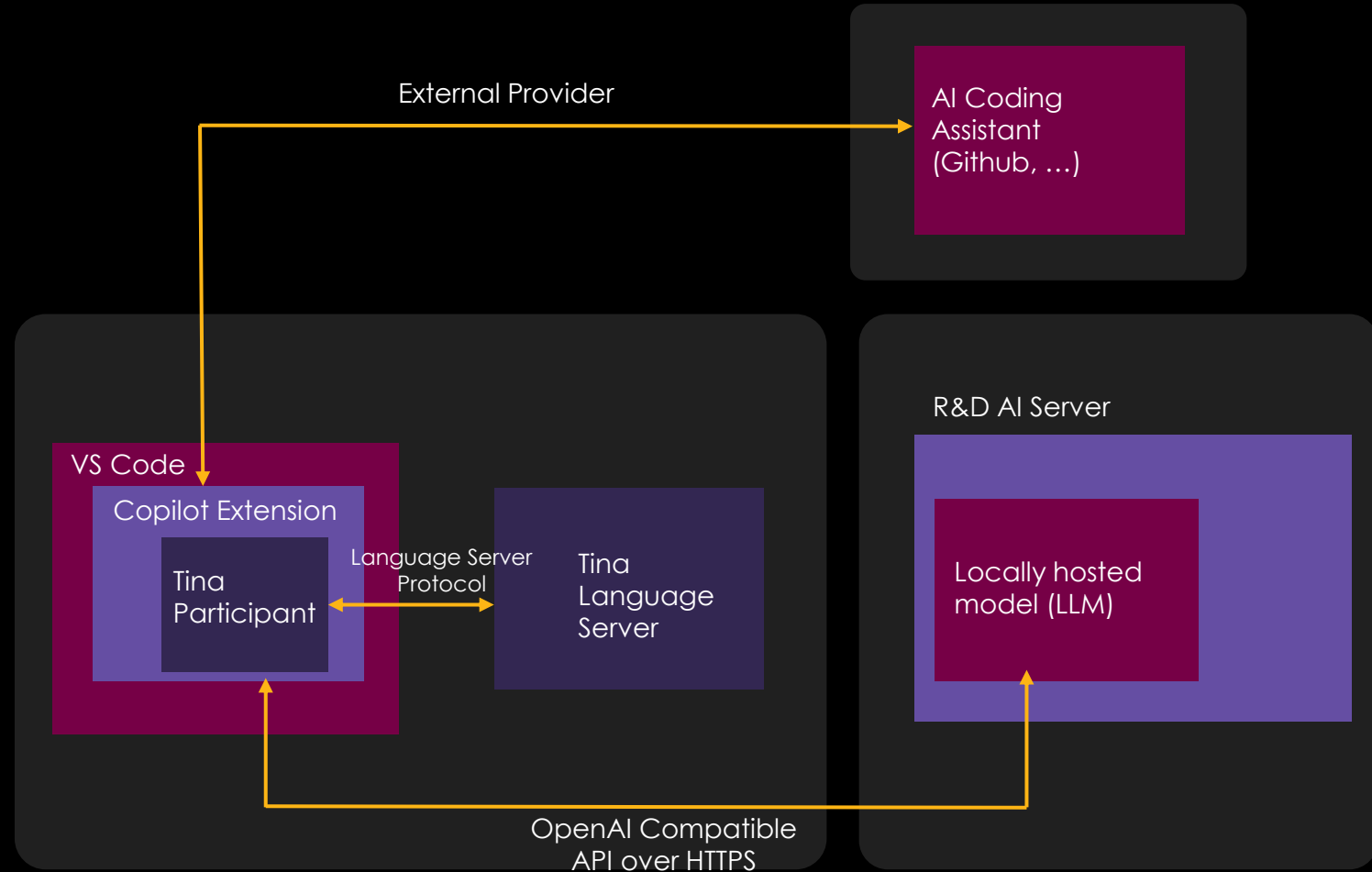
External Provider

AI Coding Assistant (Github, ...)

R&D AI Server

VS Code

Copilot Extension

Tina Participant

Language Server Protocol

Tina Language Server

Locally hosted model (LLM)

OpenAI Compatible API over HTTPS

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Tina application discovery
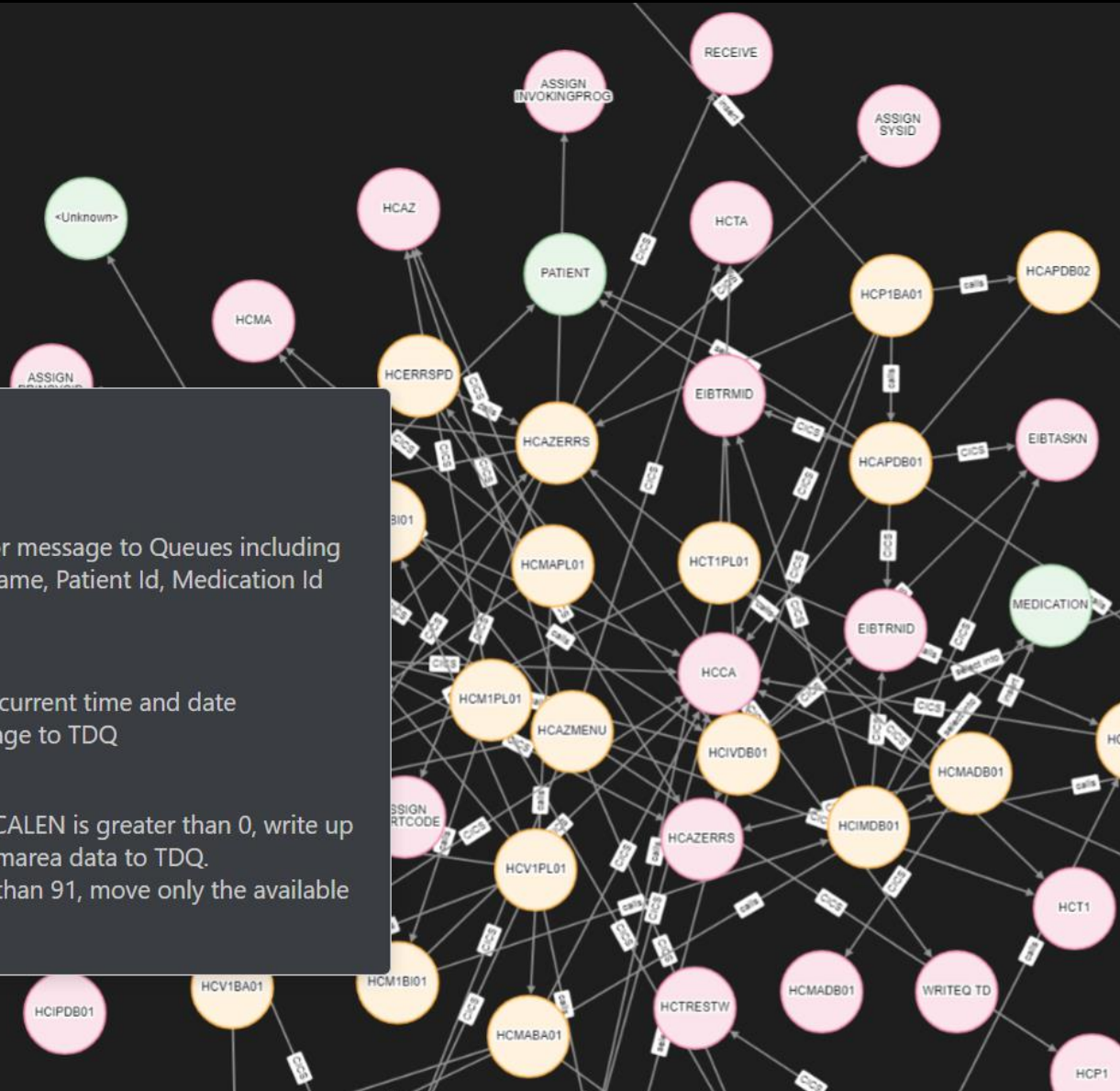
Tina discovery output sample charts
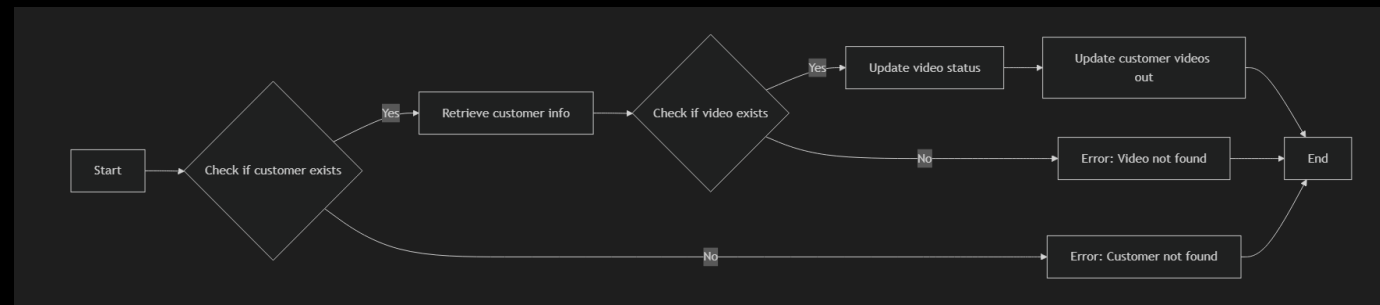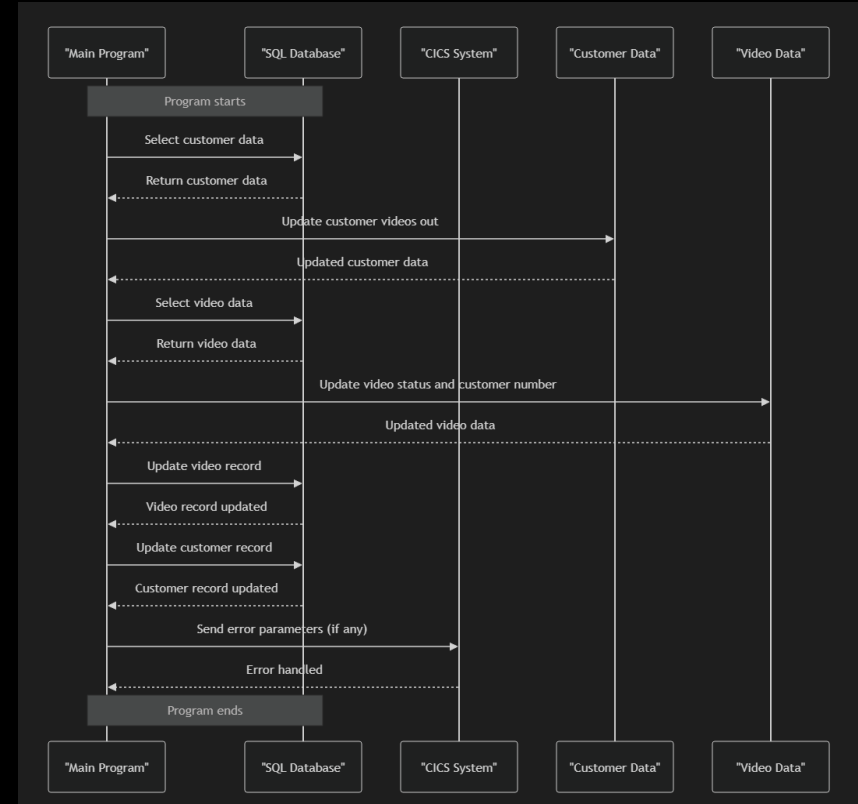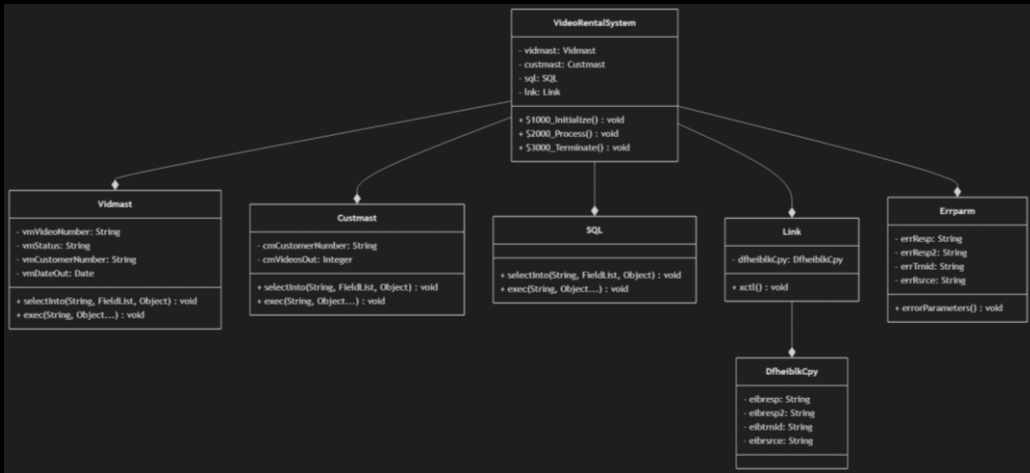
- ✓ Class diagrams

- ✓ Sequence diagrams

- ✓ Flowcharts

Identifies and documents business logic

- ✓ Builds context of application

- ✓ Semantic understanding of application functionality

- ✓ Identifies business rules and cross references with lines of source code

- ✓ Allows identification of business logic throughout application (not just at individual program level)

- ✓ Can isolate business rules for cross application functions to support development of microservices

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Business Rules Documentation for Customer Service

Introduction

This documentation outlines the business rules related to customer service in our system. It provides a comprehensive overview of the rules, their locations, and references to relevant code files.

Business Rules

The following business rules are related to customer service:

1. **Customer must enter a valid customer number.**
   - Location: `vidp4x.java` > `code` > `business_rules`
   - Reference: `vidp4x.java` (Line 123)

2. **System checks if the customer exists in the database.**
   - Location: `vidp4x.java` > `code` > `business_rules`
   - Reference: `vidp4x.java` (Line 125)

3. **If the customer has no videos rented, an appro**
   - Location: `vidp4x\.java` > `code` > `busin`
   - Reference: `vidp4x\.java` (Line 127)

4. **User can select videos to return using a slash (/**
   - Location: `vidp4x.java` > `code` > `busine`
   - Reference: `vidp4x.java` (Line 129)

5. **At least one video must be selected for return.**
   - Location: `vidp4x.java` > `code` > `busine`
   - Reference: `vidp4x.java` (Line 131)

6. **Video status is updated to reflect return and cu**
   - Location: `vidp4x.java` > `code` > `busine`
   - Reference: `vidp4x.java` (Line 133)

7. **Error handling includes SQL errors and invalid u**
   - Location: `vidp4x.java` > `code` > `busine`

Business Rules

The class enforces the following business rules:

- Customer must enter a valid customer number.
- System checks if the customer exists in the database.
- If the customer has no videos rented, an appropriate message is displayed.
- User can select videos to rent using a slash (/).
- At least one video must be selected for rental.
- Video status is updated to reflect rental and customer's rented video count is incremented.
- Error handling includes SQL errors and invalid user inputs.

In summary, the `vidrent.cbl` class manages video rentals by interacting with customer and video rental database tables. It performs various queries, uses CICS transactions, calls other programs, and enforces business rules to ensure correct rental operations.

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Automated creation of microservices

- Based on contextual understanding Tina builds specification documentation for new microservices

- Tina passes specification information to code assistant requesting generation of code for the new microservice

- Only specification documentation is provided to code assistant – no source code is exposed to remote, public LLMs

Managed Services

**End-to-end services enabling
self-funded modernization**

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Amdocs Approach for Mainframe Services

Amdocs | **Customer** | **Other Vendors**

Customer retains the centralized governance and architecture. Transfers E2E responsibility for application development, support and hosting to Amdocs.

Current Mode		→	Transition Mode	→	Future Mode
MF Domain	**Amdocs MGS**		**Amdocs E2E** (MF and others)		**MF Domain Focus**
Governance & Architecture	Governance & Architecture		Governance & Architecture		Governance & Architecture
Development & Maintenance **# of apps**	Development & Maintenance	• Expand scope to all MF apps • Leveraging also partners • Expand Amdocs ACMP and other existing hybrid operation tools	Development & Maintenance	Rationalize, consolidate and modernized applications	Development & Maintenance
Monitoring & Operations	Monitoring & Operations		Monitoring & Operations		Monitoring & Operations
Tools & Practices	Tools & Practices		Tools & Practices	Best Practice tools and processes- Automation, GenAI	Tools & Practices (toward Zero touch Ops)
IT and DC Operations	IT and DC operations		IT and DC operations		IT and DC operations
Hosting & Ownership	Hosting & Ownership CMI AWS	Amdocs ownership while gradually move to cloud account	Hosting & Ownership	Finalize migration to Amdocs cloud account	Hosting & Ownership

- Leverage Amdocs' vast experience in MGS in customer existing environment include subcontracting other partners under Amdocs governance
- Synergies with the current Amdocs operation
- Expand Amdocs' MF support team to handle additional applications – high synergy and practices streamline
- Utilizing Amdocs ACMP, SPOG, GenAI powered for near zero-touch operations

Commercial Feedback
Commitment to success | Self-funding migration

Customer PMO $

Increased YoY Cost of Doing Nothing

80% of current cost from Day1

$ Amdocs Self funded Migration to cloud, at least 50% of the applications

Customer PMO	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6

Customer PMO:
- H/W Cost
- H/W SW Cost
- Application support
- Application Enhancement
- Operations
- Other Cost

Year 1:
- H/W Cost
- H/W Cost
- Application support
- Application Enhancement
- Operations
- Other Cost

Year 2:
- H/W Cost
- H/W Cost
- Application support
- Application Enhancement
- Operations
- Other Cost

Year 3:
- H/W Cost
- H/W Cost
- Application support
- Application Enhancement
- Operations
- Other Cost

Year 4:
- H/W Cost
- H/W Cost
- Application support
- Application Enhancement
- Operations
- Other Cost

Year 5:
- H/W Cost
- H/W Cost
- Application support
- Application Enhancement
- Operations
- Other Cost

Cloud cost

Customer FMO

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Success stories

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Mainframe Modernization & Migration to the Cloud

TIER 1 Telco in NORTH AMERICA

E2E responsibility for migration to cloud, application development, support, and MF operations transfers to Amdocs

Reduced number of servers

Storage reduction

ISV footprint reduction

Considerably reduced number of MF hosted apps

Business Needs

- Leverage Amdocs's vast experience managing the CSP's services including subcontracting under Amdocs control

- Implement optimization processes to consolidate LPARs and reduce MF footprint

- Evaluate the existing environment and implement the best CSP and Amdocs tools to improve monitoring and automation

- Migration of COBOL, assembler and PL/I legacy applications to Java

Solutions

- Infra & system operations

- App maintenance & development of 98% CSP MF applications (previously ~50%)

- App transformation & migration to cloud:
  - Hundreds of apps to be modernized (code converted to Java)
  - ~80 different technologies
  - Reduction of MF servers and thousands of MIPS

Customer Value

- **Modernization** – enable and support applications' modernization roadmap

- **Reduction in Risk** – E2E accountability. Proven methodology and practices

- **Operational Resilience/ Enhanced Security & Compliance**

- **Cost Reduction & Future Proofing** – Reduction of maintenance costs for legacy hardware & software.
  - MF HW/SW footprint reduction (~50%) due to migration and LPAR optimization
  - Vendor consolidation

- **Technology debt reduction**

- Enjoy **cloud benefits** as elasticity for the migrated apps

- **Increased staff productivity & efficiency**

- **Improved business agility**

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Accelerating modernization with refactoring at scale

Accelerated modernization by using 99% automated process for refactoring code

Lowered costs by exiting increasingly expensive maintenance contracts with ISVs

Improved agility with modern languages and cloud-based infrastructure

Fueled innovation by freeing the business from legacy constraints

Why modernize

Lower mainframe costs
- Maintenance costs related mainframes surging in recent years

Improve agility
- Outdated programming languages limit the ability to adopt next-generation technology
- Customers expect a modern digital experience

Retiring mainframe specialists
- Mainframe talent in short supply with specialists nearing retirement age
- Young IT talent has no interest in working with outdated technology

Amdocs Solution

Automated modernization
- Converting 10+ outdated programming languages to Java and other object-oriented languages at scale
- Refactoring ~170 applications in COBOL, assembler and PL/I across six mainframe systems

Lower costs
- Modernization and migration to the cloud lowers costs by as mush as 80%

Increased innovation
- Modern, cloud-based systems enable the use of GenAI and advanced analytics
- Business users empowered to innovate without legacy constraints hampering ideas

This leading global insurance provider has been providing peace of mind to its customers for over a century, offering a wide range of insurance products and services across 29 countries

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Mainframe Migration
Deutsche Bank | Deutsche Asset Management (DWS)

Deutsche Bank

MOTIVATIONS

- IKS on obsolete platform (Natural & Adabas)
- Impending skills issues
- Reduce costs
- Improve efficiency
- Increase agility

SOLUTION

- Migrated 1.3 million lines of **Natural code to C#**
- Converted 15.7TB of **Adabas** data into a modern stack (SQLServer)
- Entire-X replacement
- JCL replaced by PowerShell
- How?: Astadia FastTrack Factory
  - CodeTurn
  - DataTurn
  - TestMatch
  - DataMatch

IMPACT

- Cost savings of €5,750,000 per year
- Eliminated obsolete technology
- Batch performance: duration of most challenging program went from 179 mins to 39 mins
- The applications now run in a modern environment on a fully virtualized server platform.
- Established one development team for front-end and back-end
- Further enhanced the application into a digital investment platform that is now offered to the market

5,750,000 euro
Annual savings

Converted **1.3 million lines of code** and **15.TB of data**

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Mainframe Migration
Société Générale France

SOCIETE GENERALE

MOTIVATIONS
- Eliminate mainframe with obsolete technology (Adabas & Natural)
- Impending skills issues
- Reduce maintenance costs
- Improve efficiency
- Increase agility

SOLUTION
- Migrated the bank's legacy **Natural-Adabas** application with several million lines of code to a Db2 environment
- How?: Astadia FastTrack Factory
  - CodeTurn
  - DataTurn
  - TestMatch
  - DataMatch

IMPACT
- Cost savings
- Eliminated obsolete mainframe technology
- Increased agility
- Further modernization using the Astadia FastTrack Factory

"By licensing the **Astadia FastTrack Factory** we will be able to execute the migration of the rest of the portfolio on our own rhythm and speed, and plan and prioritize the work much more dynamically in the future, instead of being tied to a strict contract" - Deputy Head of Support Mainframe & Projects

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Mainframe Migration
Foyer Insurance | Foyer Group

MOTIVATIONS

- Legacy technology hindering development and digital transformation initiatives
- Reduce maintenance costs
- Impending skills issues
- Improve efficiency
- Increase agility

SOLUTION

- Refactored mainframe COBOL and EGL based legacy to a Linux and Java based modern platform
- How?: Astadia FastTrack Factory
  - CodeTurn
  - DataTurn
  - TestMatch
  - DataMatch

IMPACT

- Creating an open infrastructure that improves interoperability
- Opening the way to the cloud
- Limiting the number of technologies required for development and implementation
- DevOps integration to optimize the development cycle and achieve continuous industrialization of deliveries

Source	#	Target	Automation
Enterprise COBOL programs	3019	Java	100%
EGL programs	7145	Java	100%
EGL JSF / JSP back	1555	Java	100%
EGL JSF / JSP front	1555	JavaScript	100%
JCL	6751	Bash	100%
Db2 tables	1477	Db2 LUW	100%
SAM files	15395	Unix files	100%

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Mainframe Migration
Shaw Industries

Shaw

MOTIVATIONS

- Reap cloud benefits
- Impending skills issues
- Reduce costs
- Improve efficiency
- Increase agility

SOLUTION

- Conversion of mainframe programs and integration components
- Conversion of mainframe databases and files
- Conversion of batch processing
- How?: Astadia FastTrack Factory
  - CodeTurn
  - DataTurn
  - TestMatch
  - DataMatch

EXPECTED IMPACT

- Eliminate obsolete technology
- Move to open-source, cloud-based platforms
- Achieve significant cost savings
- Free teams from dependency on shrinking pools of COBOL and Assembler expertise
- Enable faster deployment cycles, continuous integration, and responsiveness to changing business needs
- Position the organization for future integration with AI, analytics, and microservices

Convert **8+ million lines of code** and migrate legacy technologies such as **COBOL, Assembler, Db2, VSAM**

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Next Steps

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