# Company and Technology Overview

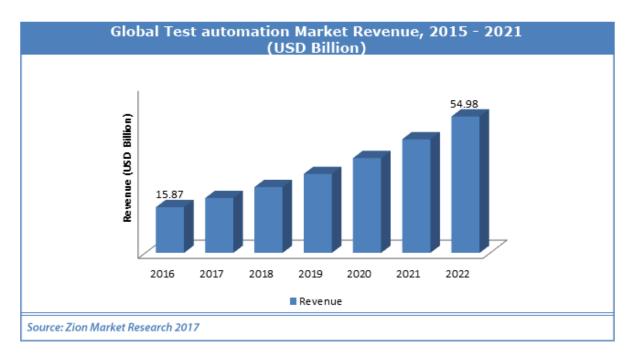
**Banking & Financial Services** 

May 2020
Proprietary and Confidential



# Test Data is an Industry-Wide Problem

# Testing is rapidly becoming Automated...



### But Test Data isn't...

- 33% of test case needs met "as is" by TDM production data global financial services firm
- **69%** use spreadsheets to manually generate new test data (2019-20 World Quality Report)
- **59%** create data manually with every test run (2019-20 World Quality Report)



# Test Data Provisioning Evolution

# **Test Data Management**



# Test Data Management

- Copy production database
- Mask sensitive information
- Subset volumes of test data
- Centralized provisioning model

Test Data Evolution

# **Test Data Automation**





### **Test Data Automation**

- Quickly setup a test data project
- Generate test data on demand
- Query production data on demand
- Self Service test data provisioning

# **GenRocket Test Data Automation**





- Fast, automated, industry leading data quality, lower cost
- 9+ years of development, refinement, customer experience
- Customers across the world in 10 different vertical markets
  - 60% of customers have revenue > \$1 Billion
  - 99.6% license retention rate across customer base



Only Patented Test Data Platform (2017)

# US 20140143525 A1 for Systems and Methods for Data Generation

# **Component Based Architecture**

GenRocket Term	Think of it like	Example	
Domain	A person, place or thing – Often equivalent to a database table	A User Domain	
Attribute	The characteristics of the Domain – the columns in the database	Name, Phone, SSN, DOB, Customer#	
259 Generator	Generates data or queries production data for the Attribute	NameGen, PhoneNumberGen, SSNGen, DateGen, QueryGen Generators	
64 Receiver	Receives the data from the Generator and morphs it into a usable format	XML, JSON, SQL, DB2, JDBC, VSAM, CSV, NACHA, BAI2 etc.	
Scenario	Instruction set that tells the GenRocket engine how much data to generate	Generates data into a typical test case in about 100 milliseconds	

# **BFS Use Cases**



#### **Payment Data Feeds**

Accurately simulate millions of rows of nested payment feed transactions for a numerous proprietary financial services data feeds



#### **Loan Origination**

Simulate up to 5,000 new, valid loans with over 6,000 data permutations & combinations while testing 10 different API's



#### **Credit Cards**

Generate over 30,200 permutations & combinations of data to fully test a new credit card line increase platform



### **Soak Testing**

Generate 22 billion rows of data for a credit card validation system



- FIX Messages
- PDF forms
- NACHA
- BAI2
- Blockchain Nexo



#### SWIFT & ISO 20022 Messages

Accurately generate nested Swift and ISO 20022 message formats.



### ETL / Data Lake

Accurately generate huge variety of data combinations and formats to fully test a data lake. NoSQL data support for large data lakes



# **Salesforce Integration**

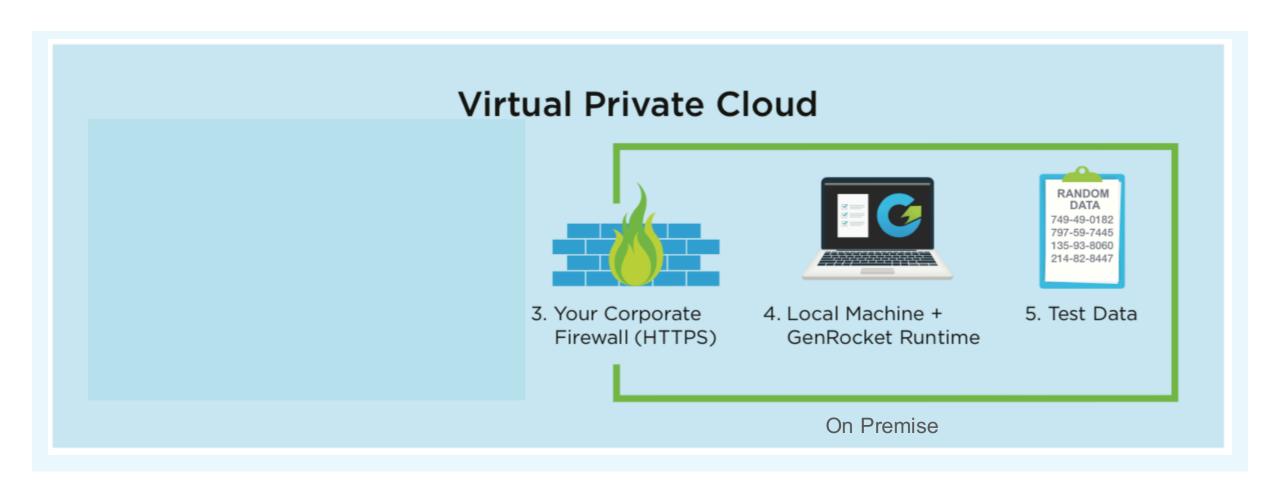
Direct integration with standard & custom Salesforce Objects and related fields. Maintains Master-Detail relationships. Can directly insert data into a Salesforce instance or sandbox.



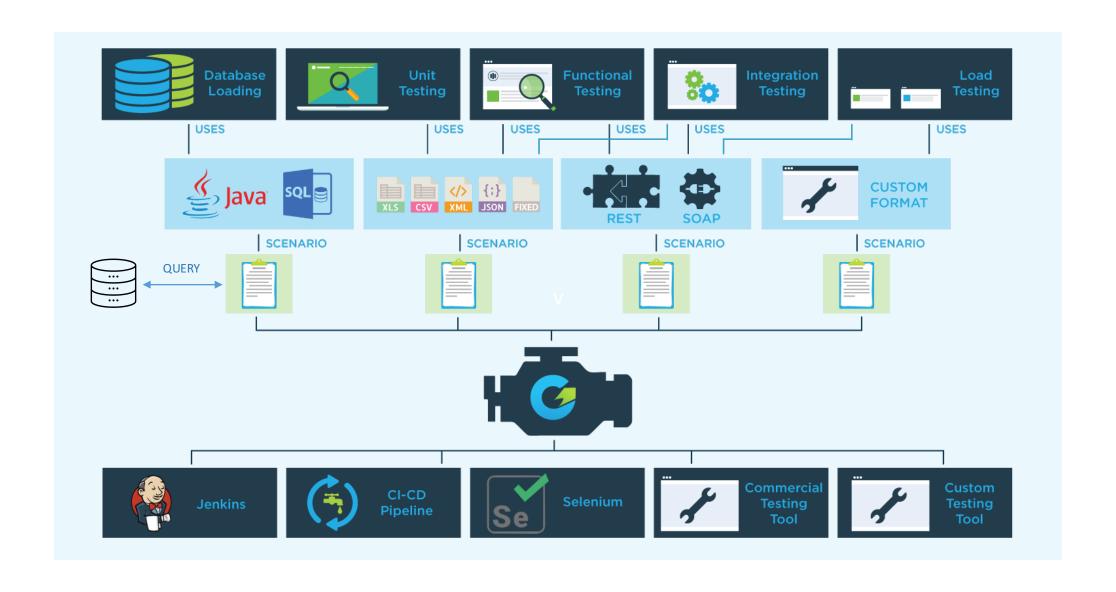
### AI / Money Laundering

Simulate money laundering transactions to "teach" a new Al system to recognize money laundering behaviour

# The GenRocket Ecosystem



# Generate Test Data for any Type of Test in any Format



# **Key Benefits**



### **Speed**

Test data for functional tests as fast as 100 milliseconds. Millions / billions of rows of test data in minutes.



### **Security**

Synthetic data is 100% secure. GDPR, HIPAA compliant. No PII identification needed. No data masking needed.



## **Data Quality**

Industry leading accuracy, predictability and control with referential integrity. Can query and blend production data values like member ID's.



### Versatility

Component based architecture allows complete versatility for the most complex requirements of large healthcare organizations.



### **Self Service**

Powerful self service platform with many automations. Testers can quickly create an unlimited range of test data cases and scenarios. No waiting for data.



### Cost / ROI

Customers can usually get started for under \$15,000. ROI usually calculated in weeks or less than six months.

# **Solution Architecture**

# Cloud



#### Management

- Test Data Projects
- Security / Permissions
- Reporting / Analytics

#### **Data Model Setup**

- Extract Table Schema
- DDL
- X12 EDI XSD
- Setup Wizards

#### Self Service Test Data Design

- Test Data Scenarios
- Test Data Cases
- Test Data Rules
- Test Data Queries
- · Test Data Stories

# **On Premise**

### GenRocket Runtime



- Execute Scenarios
- Manage Scenarios and Test Data Cases
- Runs on Linux, Mac and Windows

### Multi-User Server



- Manages high volume of test data requests
- API dynamically creates and delivers test data
- Record, playback, messaging and logging

# **^**

### **259 Generators**

- Permutations
- Edge Case
- Percentages
- · SSN, Credit cards, Tax ID
- Dates
- Name, address, phone, email
- Query from database or file

### **64 Receivers**

- Any SQL DB e.g. Oracle, DB2
- Any NoSQL DB e.g. MongoDB
- XML, JSON (and nested)
- CSV, Excel, VSAM
- JDBC, SOAP, REST
- · NACHA, Nexo, Parquet, Avro
- Complex data feeds
- Salesforce
- X12 EDI 837, 835, 274, etc.
- HL7

# Test Automation Integration



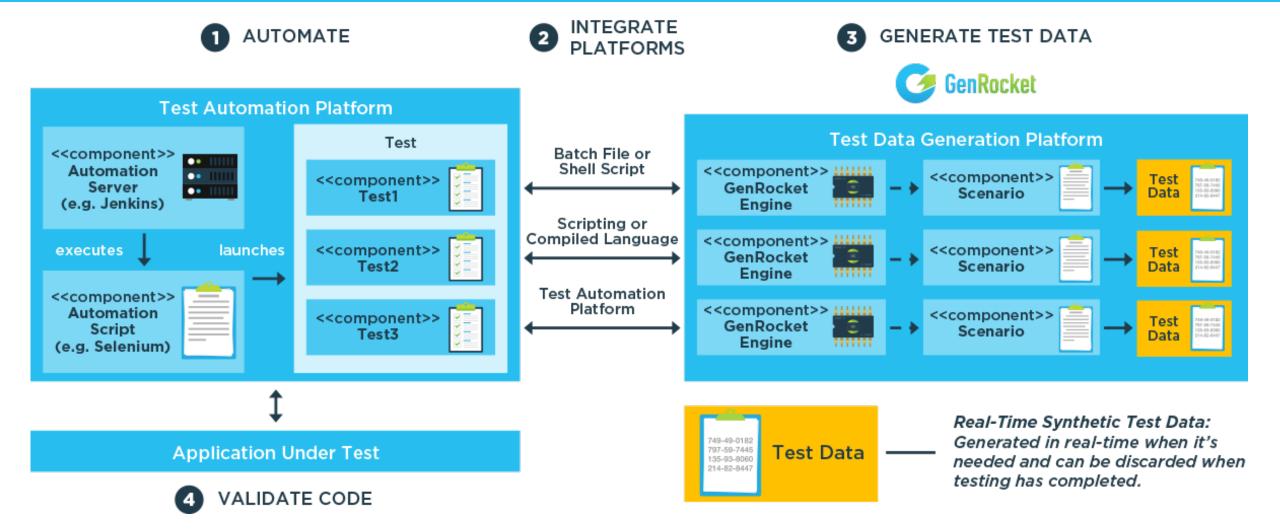
- Any testing tool / framework
- Any type of test
- Jenkins, Selenium, Cucumber
- JMeter, Sauce Labs, pCloudy
- Functionize, SmartBear, UFT, etc.

#### **API & Data Engines**



- API for dynamic data
- REST & Socket Engines
- Partition Engine
- Data Migration Engine
- Refactoring Engine

# Test Automation and CI/CD Pipeline Integration



# Go To Market Approach

### 1. Discover & Demo



- Identify Test Data challenges
- Joint sales calls with GenRocket
- Demo #1 to initial stake holder
- Demo #2 to full stake holder group

### 2. POC



- Capture POC requirements
- Completed POC in 2 weeks some will be set up by the GenRocket team
- Demo solution to stake holder group

# 3. Land & Expand



- Close for 5 to 20 licenses
- Onboard, validate ROI / Value
- Expand across the enterprise

# Message to Buyers

#### CIO

#### **Problem Statement**

- Test Cycle Time
- Test Quality
- Data Compliance
- Data Security

#### Message

- TDM > Test Data Automation
- Self Service On-Demand Delivery
- Data Security / Data Compliance
- Future Proof AI/ML compliant

#### **Money Questions**

- What are your top challenges with Test Data Management (TDM)?
- Is test data delivery speed fast enough?
- Is test data quality high enough for all tests?
- What are the measures taken to assure data security and regulatory compliance for test data?

#### **QA Director, Engineering Director**

#### **Problem Statement**

- Test data delivery is too slow
- Test data lacking for all test requirements
- Data security restrictions for remote workers

#### Message

- TDM > Test Data Automation
- Self Service On-Demand Delivery
- Integration with DevOps and Continuous Testing
- Data Security even for WFH (Work from Home)

#### **Money Questions**

- How do your teams create test data today?
- Is any test data created by hand or spreadsheet?
- Is test data delivery speed fast enough?
- Is test data quality high enough for all tests?
- Is there enough test data *variety* for all tests?

# **Pricing**

FEATURES	GROUP EDITION	PROFESSIONAL EDITION	ENTERPRISE EDITION
Annual License Cost	\$1,000	\$1,500	\$2,500
Min # licenses	1	5	5
Max # licenses	10	50	Unlimited
# Projects	3	25	Unlimited
Hosting	VPC	VPC, DPC, On Prem	VPC, DPC, On Prem
DB Copy / Migration	No	Yes	Yes
Multi-User Server	No	Yes	Yes
Data - Millions/Billions	No	Yes	Yes
G-Workflow*	No	No	Yes



\*To be released Q3 2020

Latest pricing is available on the GenRocket Web site

# Partner Support

### **Support Offerings**

Sales Training

Technical Training

Joint Sales Calls

Non-Commercial Licenses

No Cost POC's

Support Hours

Knowledge Base

Special Pricing

**Brochures / Case Studies** 

Yes – online course / Request on Website

Yes – online course / Request on Website

Yes – Zoom / WebEx / MS Teams

Yes

Yes

5 X 24 support for partners & customers

Yes – Over 700 Help Articles

Only for Registered Deals – Case by Case

Yes – download from Website

