

# What's new in CA Test Data Manager 4.0 ?

CA Test Data Manager Product Team

10 January 2017

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# What's in 4.0?

Improved customer experience for IMS Masking

64bit Data Generation engine enhancements

- Support for multiple connection profiles and/or schemas in single publish
- Support for non-blocking asynchronous host actions
- Publish Data to Excel files
- Support for stored SQL
- Overriding Default Values of Variables
- Being able to cancel publish jobs

Quality remediation – address all high severity defects across the product

# What's in 4.0?

## Ease of managing TDM Project using portal

- Automatic Selection of the Last-Accessed Project in the Portal
- Copying Publishing Actions and CA ARD Flows During Version Upgrade

## CA TDM Portal Tester Self-Service

- Test Data Engineer can configure to show Repeat count field

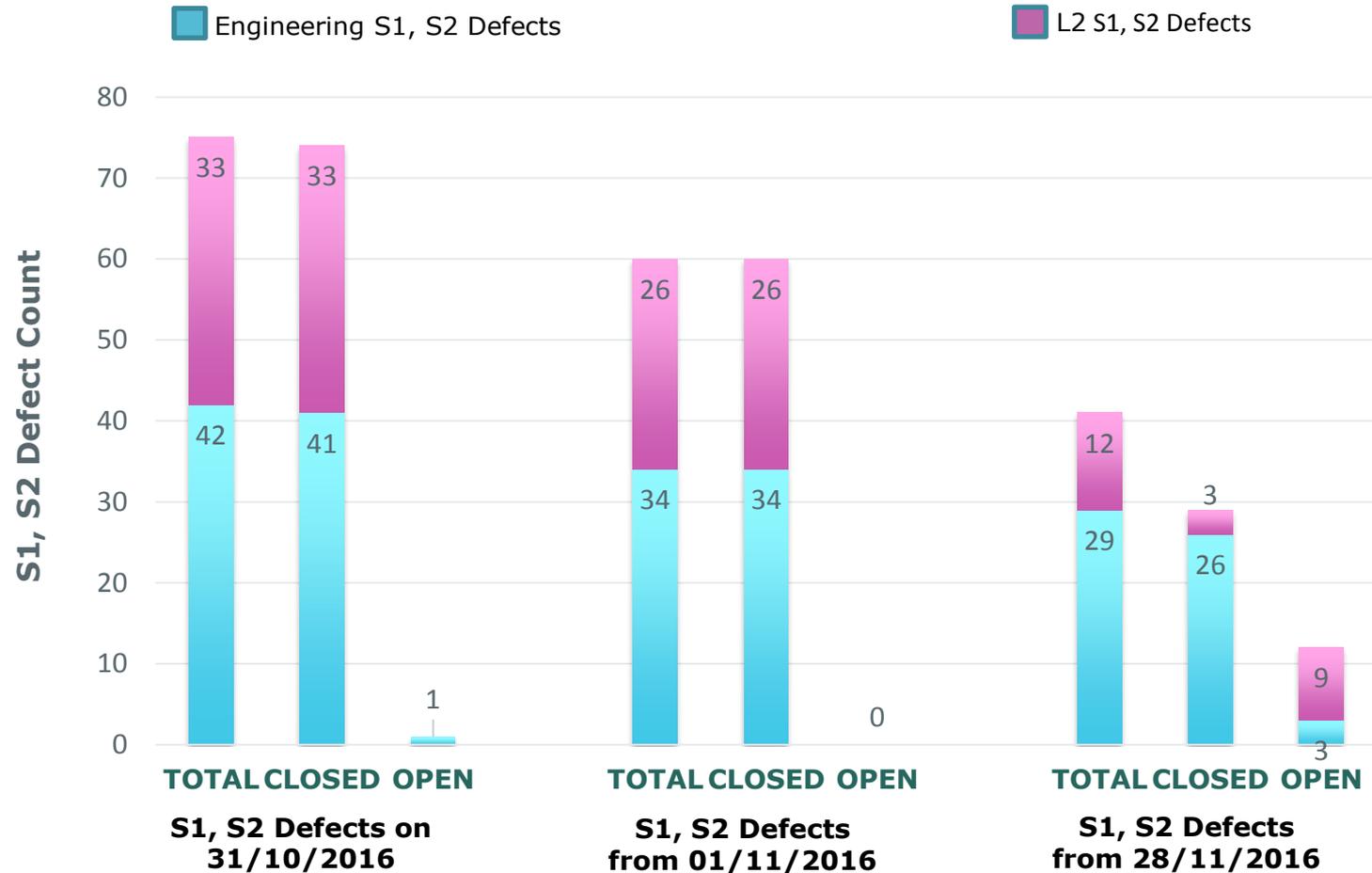
## Fast Data Masker

- Support for Turkish local masking functions
- New masking options for hash values and keys

## Installation and Administration

## Support for JRE 1.8

# Quality Remediation



Note: 1 defect open from 31/10/2106 is pending verification from ARD team.

# Relational Data Generation

- Support for registration of relational schemas, CSV and GTEXcel
- Comprehensive data generation support
- Create and Manage Generator Configurations and Publish Actions
- Manage CA Agile Requirements Designer Flows

The screenshot shows the 'Test Data Manager Portal' interface. The top navigation bar includes the CA logo and the text 'Test Data Manager Portal'. The project name is 'Order Management [ 1.0 ]'. The left sidebar contains the following menu items: Modeling, Generators (selected), Orchestration, Self-Service Flows, Self-Service Catalog, Submitted Requests, and Configuration. The main content area is titled 'Generators > Clone Orders'. It shows a table with columns 'Description', 'ID', 'Project', and 'Project ID'. The 'Clone Orders' generator is listed with ID 2486 and Project 'Order Management'. A 'SELECT TABLES' button is visible. Below this, there are two data preview tables. The first table is titled 'Orders' and has columns 'Row', 'OrderID', 'CustomerID', 'EmployeeID', and 'OrderDate'. The second table is titled 'OrderDetails' and has columns 'Row', 'OrderID', 'ProductID', 'ProductName', and 'Quantity'. To the right of the main content is a 'Registered Tables' panel with a search bar and a list of tables and schemas, including 'Orders' and 'OrderDetails' from the 'dbo' schema.

# Publish Engine Improvements

- Processing in iteration loop
  - Minimise processing inside main iteration loop(s)
  - Maximise processing in pre-publish stage
  - Datamaker not optimal – re-used functions, POC & deprecated code
- Checking for Generated Duplicates
  - Temporary table in repository – store only primary and unique keys
  - Generated duplicate detected by DBMS on insert
  - Scalable - generated rows not stored in memory

# Publish Engine Improvements

- Column references

- Column references refer to rows in same (main) iteration
- Store only generated rows of current iteration

- Variable substitution

- For each expression, iterate over list of variables, search and replace
- Scan expression looking for variables, look up from hash map

# Clone performance improvements

	Datamaker	TDM Portal
100k rows (3 columns)	1 hour	< 2mins
100k rows (columns in different generator/data pool )	1 hour	< 2mins
100k rows (with insert batching)	1 hour	~ 1 min

NOTE:

- Tested in Oracle and MSSQL
- Local DBs

# Publish Engine Stats

Table Name	No of Rows	No of Functions/ Columns	Global Repeat Count	Data Maker - Remote	Data Maker -Immediate	TDM Portal
Customer Data	1	72	1000	2min 24sec		20sec
Customer Data	1	72	10000	24min 56sec	22min	2min 1sec
Customer Data	1	72	20000	49min 36sec	42min 46sec	3min 37sec
Customer Data	1	72	30000	1hr 14min 48sec	1hr 0min 27sec	5min 38sec
Customer Data	1	72	40000	1hr 39min 23sec	1hr 25min 4sec	7min 3sec
Customer Data	1	72	50000	Publish Failed	1hr 52min 24sec	8min 46sec
Customer Data	1	72	75000			13min 32sec
Customer Data	1	72	100000		3hr 53min 39sec	17min 57sec

# Questions?

