What's new in CA Test Data Manager 4.0 ?

CA Test Data Manager Product Team

10 January 2017

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Agenda

1. What's in 4.0?

2. Quality Remediation

3. Relational Data Generation

4. Tester Self Service

5. Q & A

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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

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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

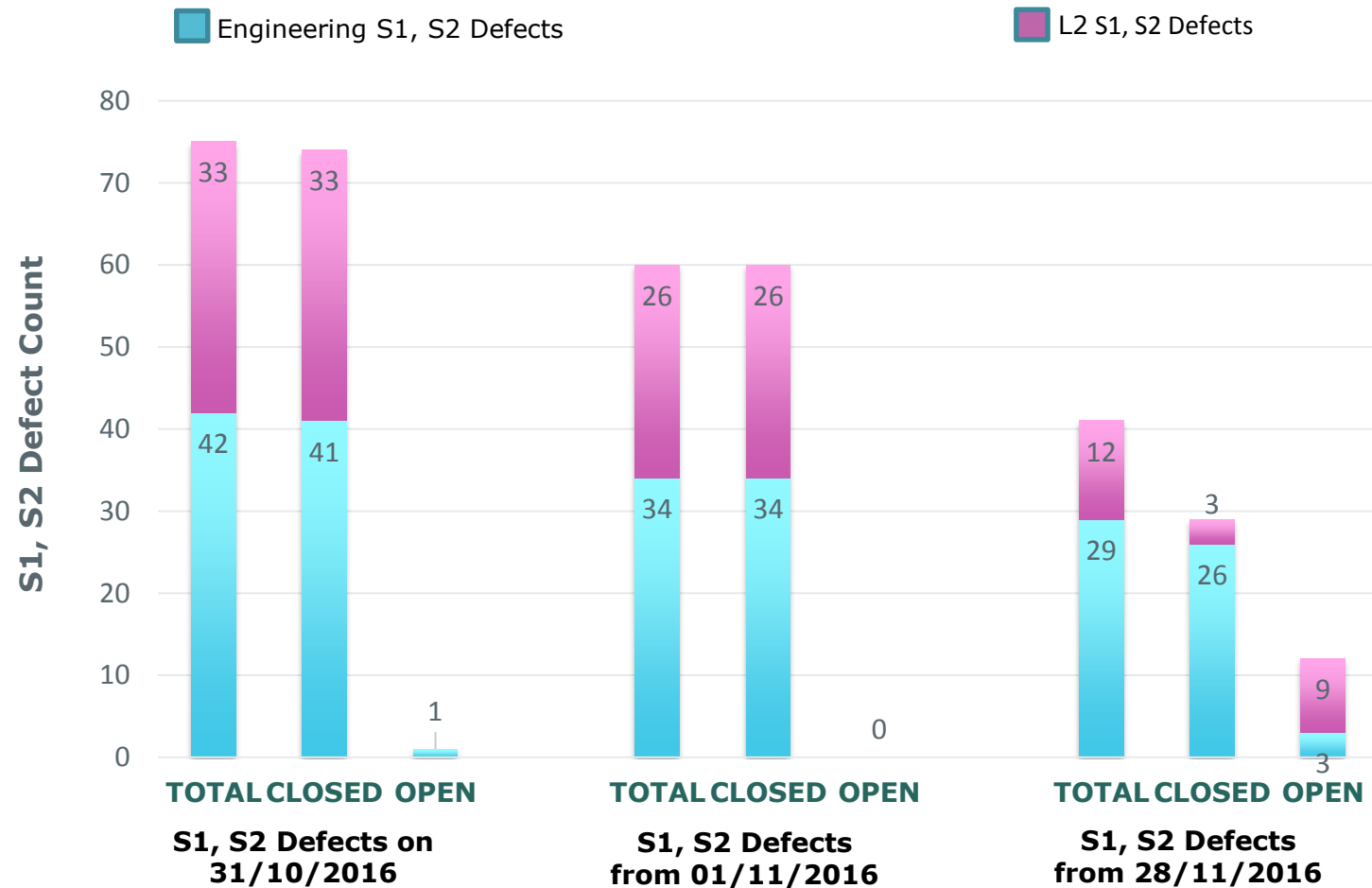- ◦ Test Data Engineer can configure to show Repeat count field

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

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

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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

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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

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Questions?