AD SWAT

CA TDM 4.5



CA Test Data Management 4.5

Prepared by : Manjunath NarayanReviewed by: Donald GallDate: March 2018Version: V1.0

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Chapter 1: Introduction

The purpose of this document is to assist the End user working on CA Test Data Management to upgrade their CA Test Data Management from 3.x version to the latest version. The document will provide step by step approach to upgrade the CA TDM components.

Chapter 2: Prerequisite

2.1 Pre-requisite / Optional: Backing up current TDM Configurations

Review the following link before beginning the upgrade:

https://docops.ca.com/ca-test-data-manager/4-5/en/installing/upgrade-product-components

2.2 Prepare for Upgrade

To prepare for the upgrade, ensure that all necessary data is backed up and enter your license request, if necessary. If you have already migrated to the new licensing scheme introduced in CA Test Data Manager 3.1.2, you do not require a new license. You can simply reload the license after upgrade until it expires.

Starting with 3.2.2, the upgrade process automatically backs up all product configurations before the upgrade and restores those configurations during upgrade. Therefore, Step 2 is not required for upgrades to 3.5 and later unless you want to create your own backups for extra security.

- Back up your repository database. This process varies depending on your database. Check with your DBA.
- 2. (Optional) Back up all enabled CA Test Data Manager configurations as follows, using the TDoD Config Editor as an example:
 - a. Navigate to TDM_HOME\Grid-Tools\TDoD\TDoD_Config Editor and run TDoDConfigEditor.exe.

- b. On the Configure Server tab, click Backup.
 The config editor creates a backup of the configuration file, and a confirmation message appears.
- c. Back up other enabled config editors using the same process.

If enabled, other config editors that support backup are:

- Remote Publish Engine
- Rally Batch Service
- HP ALM Service
- Group Job Process Executor
- HP ALM Batch Configuration Service
- 3. (Optional) Request a license for your upgrade using a Customer Care Case Request: <u>https://support.ca.com/irj/portal/anonymous/customercare</u>.

This request is only necessary if you are upgrading from an older version or if your license is expiring. Licenses from 3.1.2 and later are reusable with your upgraded software until they expire.

Provide your Enterprise Site ID, Product Name (CA Test Data Manager), and release number. When the request is processed, you receive an activation key. If needed, we recommend that you request the license before performing the upgrade to account for the license turnaround time.

Versions	Suggested Path
3.2	3.2->3.5 -> 3.8 -> 4.0->4.2 -> 4.4->4.5
3.5	3.5->3.8 -> 4.0 -> 4.2->4.4 -> 4.5
3.8	3.8->4.0 -> 4.2-> 4.4->4.5
4.0	4.0 -> 4.2->4.4->4.5
4.1	4.1 -> 4.3->4.5
4.2	4.2 -> 4.4->4.5
4.3	4.3 -> 4.5

2.3 Upgrade Path for 4.5

Chapter 3: Installation

3.1 Download



4.5 3.2.11	0000	CA TEST DATA MANAGER FULL GEN50000000001253.zip CA TEST DATA MANAGER REPO GEN50000000001264.zip	PACKAGE 4.5 SITORY KIT 3.2.11	03/28/2018 03/19/2018		CA Test Data Manager Full Package 4.X Component should be
4.5 3.2.11	0000	CA TEST DATA MANAGER FULL PACKAGE 4.5 GEN50000000001253.zip CA TEST DATA MANAGER REPOSITORY KIT 3.2.11 GEN500000000001264.zip	03/28/2018 03/19/2018	<u>ج</u>	ф ф	Download from here directly or select Add to Cart for the various downloads (as required) and then select View Download Cart.
4.5	0000	CA TEST DATA MANAGER FULL PACKAGE 4.5 GEN50000000001253.zip CA TEST DATA MANAGER REPOSITORY KIT 3.2.11 GEN500000000001264.zip	03/28/2018 03/19/2018	` + ; ; ;	ф ф	Choose one of the methods for download and start the download to your Download location

3.2 Installation steps to TDM 4.x

Go to the location where you chose the zip file to be downloaded to and un-compress the file. Once completed you should see product files as listed below:

SYSTEM (C:) → InstallMedia	
Name	Date modified
o setup_GTServer_4.5.0.19.exe	3/22/2018 10:39 PM

You should now see a setup executable with the Datamaker logo next to it.

▶ SYSTEM (C:) ▶ InstallMedia
 Name
 Date modified
 © setup_GTServer 4.5.0.19 exe
 3/22/2018 10-39 PM
 Open
 Run as administrator
 Troubleshoot compatibility
 Pin to Start

Launch the executable by right clicking and select "Run as administrator".

Follow along with the following screen shots.

Note: During installation/upgrade, It is advised to leave everything as the default selections, unless you have specific components you want or don't want to install, in which select/deselect as necessary. Also, the target install location should automatically be directed to the current installation, but it is recommended to check/verify that it is correct.



0	GTServer Setup	×
	License Agreement Please read the following text carefully.	
	CA End User License Agreement (the "Agreement") for the CA software product that is being installed as well as the associated documentation and any SDK, as defined below, included within the product ("the Product"). Carefully read the following terms and conditions regarding your use of the Product before installing and using the Product. Throughout this Agreement, you will be referred to as "You" or "Licensee." By installing or using the Product, or by selecting the "I accept the terms of the License Agreement" radio button below, and then clicking on the "Next" button, you are	
	I accept the terms in the License Agreement	¥
	I do not accept the terms in the License Agreement	
	Back Next Finish Can	cel

These programs are needed for the next to a prerequisite to select it for the select select the select sel	ne appl for inst	ication all or to	to rur skip	n. Click it.	on the	e check b	ox		
Name	v	ersion					Action		^
.NET Framework 4.5	R	equired	d: any	y. Four	nd an a	accept	Skip		
Silverlight 5 x64	R	equired	1: 5.1	.3021	4.0 or	higher	Skip		
Java SE Runtime Environment 8 x	64 R	equired	d: 1.8	or hig	her. Fo	ound	Skip		
Visual C++ 2010 SP1 x64 (MFC S	e R	equired	1: 402	219.32	5 or hi	gher	Skip		
Visual C++ 2010 SP1 x86 (MFC S	e R	equired	1: 402	219.32	5 or hi	gher	Skip		
Visual C++ Redistributable for Vis	R	equired	4. 11. 4. 11.	0.610	30 or h	igher	Skip		
SOL Server Native Client 2012 x6	4 R	equired	1: 11.	0.210	0.60 or	r high	Skip		
ODP4.NET Deployer	R	equired	1: 4.1	12.3.0) or hig	her	Skip		
ODP4.NET 32 bit Deployer	R	equired	d: 4.1	12.3.0) or hig	her	Skip		
GTRemotePublish	R	equired	l: 4.5	5.0.6 o	r highe	r. Fo	Install		
GT Group Job Executor	R	equired	1: 4.5	5.0.6 o	r highe	r. Fo	Install		¥
	Pa	-la	1	Next		Finit	-b		an col
	Ва	CK		Next		Finis	sn	Ca	ancei
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NOTE: Any prerequisites that are needed will be installed prior to the installation of the selected components

GTServer Se	etup)		
Prerequisites Install Please wait while the selected prerequisites are inst	alled.			
Name	Status	٦		
Java SE Runtime Environment 8 x64	Installing	1		
GTRemotePublish	Pending			
GT Group Job Executor	Pending =			
GT HP ALM Service	Pending			
GT ALM Batch	Pending			
GTDatamaker	Pending	1		
GT - Test Data On Demand	Pending			
FastDataMasker	Pending			
GTPortusJobProcessor	Pending 🗸 🗸			
Installing Java SE Runtime Environment 8 x64 from: C:\Grid-Tools\Installers\jre-8u111-windows-x64.exe Automatically start installing the main application after finishing the prerequisites install.				
Back	Next Finish Cancel			



NOTE: Verify install destination is correct.







0	GT Group Job Executor Setup	_ 🗆 🗙
Installation Folder		Advanced Installer
Collecting information	This is the folder where GT Group Job Executor will be installe	ed.
 Installing Finalizing installation 	To install in this folder, click "Next". To install to a different folder, ente "Browse". Folder:	r it below or click
	D:\Grid-Tools\GTGroupJobProcessor\	Browse
	< Back Next >	Cancel













0	GT ALM Batch Setup	– – ×
Installation Folder		Advanced Installer
Collecting information	This is the folder where GT ALM Batch will be installed.	
 Installing Finalizing installation 	To install in this folder, click "Next". To install to a different folder, enter "Browse". Folder:	r it below or click
	D:\Grid-Tools\ALMBatch\	Browse
	< Back Next >	Cancel









🙆 GTDatamaker Setup		*
GTDatamaker Setup Comp	lete	Advanced Installer
 Collecting information Preparing installation Installing 	Click the "Finish" button to exit the Setup Wizard.	
Finalizing installation	🥅 Launch GTDatamaker	
	Back	Cancel











SastDataMasker Setup	x
	Be sure to carefully read and understand all the rights and restrictions described in the license terms. You must accept the license terms before you can install the software. CA End User License Agreement (the "Agreement") for the CA software product that is being installed as well as the associated documentation and any SDK, as defined below, included within the product ("the Product"). Carefully read the following terms and conditions regarding your use of the Product before installing and using the Product. Throughout this Agreement, you will be referred to as "You" or "Licensee." Print Press the Page Down key to see more text.
	 I <u>a</u>ccept the terms in the License Agreement I <u>d</u>o not accept the terms in the License Agreement
	< Back Next > Cancel

🥺 FastDataMasker Setup		- 2	×
Grid-Tools FastDataMasker Setup			
Select Installation Folder			
This is the folder where FastDataMasker will be installed.	To install in this folder, click "Next". To install to a different folder, enter below or click "Browse".	it	
	Product install path:		
	D:\Program Files\Grid-Tools\FastDataMasker\ Browse.		
	< Back Next > Cance		





0	GTPortusJobProcessor Setup	- 🗆 ×
Installation Folder		Advanced Installer
 Collecting information Preparing installation 	This is the folder where GTPortusJobProcessor will be installe	d.
 Installing Finalizing installation 	To install in this folder, click "Next". To install to a different folder, enter "Browse". Folder:	it below or click
	D:\Grid-Tools\GTPartusJobProcessor\	Browse
	< Back Next >	Cancel



















Finalizing installation				
	Folder:			
	D:\Grid-Tools\GTRallyBatch\			Browse
		< Back	Next >	Cancel



GTRallyBatch Setup Comp	plete	Advanced Installer
	Click the Finish button to exit the Setup Wizard.	
Collecting information		
Preparing installation		
🧿 Installing		
Finalizing installation		
/		
	< Back Fir	nish Cancel





0	GTServer Setup	x
GTServer Setup Complete		Advanced Installer
	Click the "Finish" button to exit the Setup Wizard.	
Collecting information		
Preparing installation		
Installing		
Finalizing installation		
	< Back Finish	Cancel

3.3 Renaming rep.xml file and syncing the repository database

After the CA Test Data Manager upgrade completes, upgrade the repository by renaming the rep.xml file, performing the upgrade, and renaming the file again.

Note: The rep.xml lets you store repository credentials so you do not have to connect every time. If you do not use a rep.xml file, you can skip the steps related to the file.

 Launch Datamaker using the Desktop icon or through the file system (TDM_HOME\Grid-Tools\GTDatamaker\gtdatamaker.exe). The following message appears:

DB version specified in database (3.2E) is invalid.

This version of the software can work with DB version 3.2G only.

You are connecting with pre-distributed details (rep.xml) - no upgrade is allowed.

Please contact support.

This message means that you must upgrade the repository before proceeding.

- 2. Navigate to the TDM_HOME\Grid-Tools\GTDatamaker directory, and rename the rep.xml file to rep-old.xml.
- 3. From the Windows Explorer dialog, type %appdata% into the file path and select the Grid-Tools folder in the results. Rename the rep.xml to rep-old.xml in this folder. If the rep.xml file does not exist at this location, skip to step 4.
- 4. Launch Datamaker again.

The Test Data Repository log in for CA Test Data Manager dialog opens. It includes the repository profile that you selected in the last installation.

5. Click the green database connection button.



The following message appears:

Ø	Test Data Repository (3.2L) log in for CA Test Data Manager - Datamaker		×
	Version problem	×	
~	Test Data Repository version specified in database (3.2K) is invalid. This version of the software can work with Test Data Repository versions 3.2L a only. In order to run the upgrade you will need to know the user name and password of	nd above a user in	
	the ADMIN group.		
F	Would you like to attempt an upgrade? 4.5	.0.36 [O11] 3.2K	~
	Yes No!	2	

Note that if you do not see this message, it is most likely that the user that installed the product is not performing the upgrade. If this is the case, you will need to create a new repository profile and provide the appropriate connection details. Check the entry for the new profile and click the green database connection button. You should then see the above message. 6. Click Yes.



The login page opens.

7. Log in with administrator credentials.



The CA Test Data Manager - Datamaker Repository Schema - Updates Required message opens.

0	CA Test Data Ma	nager - Datamaker Repository Schema - Updates Required		×
CA Test	: Data Manager - Datamaker Repos	itory Schema Updates.		^
You car found i	n choose to run this script now in C:\Users\Administrator\AppDat	or later. We recommend that you should run it now. a\Roaming\Grid-Tools\rep_update.ddl	The script can be	
Do you	wish to run this update now?			
CREATE	SEQUENCE seq_et1 START WITH 1;			
CREATE	TABLE gtrep_etl_keys_values (ekv_id ekv_job_id ekv_job_id ekv_ld_id ekv_fk_id ekv_table_name ekv_table_name ekv_column_name ekv_key_expression ekv_key_value ekv_key_ualue ekv_key_value ekv_key_orent_value ekv_parent_table_name ekv_parent_value ekv_key_parent_value ekv_key_parent_value ekv_key_message ekv_template date_created program_created date_updated program_updated	number (18, 0) NOT NULL, number (10, 0) NOT NULL, number (10, 0) NOT NULL, number (10, 0) NOT NULL, number (18, 0) NOT NULL, nvarchar2 (254) NOT NULL, nvarchar2 (254) NOT NULL, nvarchar2 (2000) NULL, nvarchar2 (2000) NULL, number (8, 0) NULL, nvarchar2 (254) NULL, nvarchar2 (254) NULL, nvarchar2 (254) NULL, nvarchar2 (254) NULL, nvarchar2 (254) NULL, nvarchar2 (1000) NULL, nvarchar2 (1000) NULL, nvarchar2 (1000) NULL, nvarchar2 (254) NULL, varchar2 (254) NULL,		
CREATE	TABLE gtrep_etl_iterations (4.5.0.36 [O11] 3.2L	~
	Yes	No		

8. Click Yes.

The main Datamaker window opens.

- 9. Select Settings, Enter Activation Key.
- 10. Enter the activation key that you received from you license request, and click the Save button. A confirmation opens. Click OK, and you should see a full listing of all connection profiles.
- 11. Close Datamaker.
- 12. Rename the rep-old.xml files to rep.xml in the TDM_HOME\Grid-Tools\GTDatamaker and %appdata%\Grid-Tools directories.
- 13. Launch Datamaker again.

CA Test Data Manager - Datamaker User Logon for CA_DGall - 105246 - TDM
Ødatamaker™
User Name: administrator

You should be able to connect successfully to any connection profile.

0	Data Tar	get and Data Sourc	e log in CA Test Data Manager - Da	tamaker	×
6			Øda	tamaker™	
6) 🗇	Profile	DBMS	Database	*
V		GRP- HRENV2	SQL Server (DSN-Less ODBC)	Driver={SQL Server Native Client 11.0};server=GILTA03\SQL	EXPRESS;database=HR
	V	GRP- HRENV1	SQL Server (DSN-Less ODBC)	Driver={SQL Server Native Client 11.0};server=GILTA03\SQL	EXPRESS;database=HR
		TestMart	SQL Server (DSN-Less ODBC)	Driver={SQL Server Native Client 11.0};server=GILTA03\SQL	EXPRESS;database=Te:
		sa - travel	SQL Server (ODBC)	travel	-
		sa - travel_e	SQL Server (ODBC)	travel_e	-
		HRENV1	SQL Server (DSN-Less ODBC)	Driver={SQL Server Native Client 11.0};server=GILTA03\SQL	EXPRESS;database=HR
		HRENV111	SQL Server (DSN-Less ODBC)	Driver={SQL Server Native Client 11.0};server=GILTA03\SQL	EXPRESS;database=HR
		HRENV2	SQL Server (DSN-Less ODBC)	Driver={SQL Server Native Client 11.0};server=GILTA03\SQL	EXPRESS;database=HR
		sa - orders	SQL Server (ODBC)	orders	
	_				-
			Get pr	afiles from:	•
	9		Connect Data Target Connect Data Source Regi	istry ository	

 14. Repeat the process described in Perform Repository Maintenance to verify that no further repository maintenance is required: <u>https://docops.ca.com/ca-test-data-manager/4-5/en/installing/install-ca-test-data-manager/perform-repository-maintenance</u> The upgrade is complete.

3.4 Maintenance mode in Datamaker

After the successful Datamaker upgrade, You can run the Maintenance Mode on the Datamaker by running **CTRL + ALT + M**

Enter the Administrator credentials

CA Test Data Manager - Datamaker Administrator Logon
Ødatamaker™
User Name: Administrator
Password :

Choose "Check Repository Tables" and Process

0	Maintain Connections
CA Test Data Manager - Datamaker Connection maintenance CA Test Data Manager - Datamaker Test Data Repositor Check Repository Transact-SQL Create / Replace Views Create Audit Triggers Drop Audit Triggers Populate context desc Analyse Repository tables Pruge User Access logs Pruge User Access logs Pruge User Access logs Pruge User Access logs Pruge Web Logs Reset Sequences Remote Publish Authorisation DM Internal Project - Data Assistant Rule Sets Fre Masking functions CA Test Data Manager - Datamaker Data Target (SQL S	Check all CA Test Data Manager - Datamaker tables are present in the repository connection This facility will check if any tables are missing and create a script to create any missing tables. Using definition file C:\Program Files (x86)\Grid-Tools\GTDatamaker\centgtrep.ndd Click the Process button to check tables.

Expected Result: you will get **Repository Schema OK – No Updates required**

0	Maintain Connections	x
CA Test Data Manager - Datamaker Connection maintenance CA Test Data Manager - Datamaker Test Data Repositor Check Repository Transact-SQL Create / Replace Views Create / Replace Views Create Audit Triggers Populate context desc Analyse Repository tables Purge Publish Jobs Purge Publish Jobs Purge Publish Jobs Purge Publish Jobs Purge Veb Logs Purge Web Logs Purge Web Logs Create Sequences Making functions CA Test Data Manager - Datamaker Data Target (SQL S CA Test Data Manager - Datamaker Data Source (SQL	⊢- Repository Schema OK - No updates required.	^

Known Issue: With Datamaker 4.5

You might get below result – Inaccuracies found- Updates required, Run the Execute Script

0	Maintain Connections	×
CA Test Data Manager - Datamaker Connection maintenanc Test Data Manager - Datamaker Test Data Repositor Check Repository Tables Create / Replace Views Create / Replace Views Create Audit Triggers Roll up rows Populate context desc Analyse Repository tables Purge Vablish Jobs Purge Vablish Jobs Purge Vablish Jobs Purge Vablish Jobs Purge Vablish Jobs Purge Vablish Jobs Purge Vas Access logs Purge Vas Access logs Pur	Maintain Connections	×
	Write to File	~
< >		

Execute Script, In 4.5 you might get the above screen, It is fine and you can proceed to next step.

0	Script Execution ×		
Execution comple	ete.		
		4.5.0.36 [O11] 3.2L	\sim
	ок		//

Select Update Repository Transact-SQL and select Yes to update all the repository Transact-SQL

CA Test Data Manager - Datamaker Connection maintenance CA Test Data Manager - Datamaker Test Data Reposite Update Repository Transact-SQL Create Audit Triggers Create Audit Triggers Roll up rows Populate context desc Analyse Repository tables Do you want to update all the repository Transact-SQL?
Drop old Repository views Purge Publish Jobs Purge User Access logs Purge X:ref tables Purge Web Logs Purge Web Log

Select OK

0	Update Repository Trar	nsact-SQL	x
9 atte 0 faild	mpted ed or not attempted.		^
	ок	4.5.0.36 [S12] 3.2L	