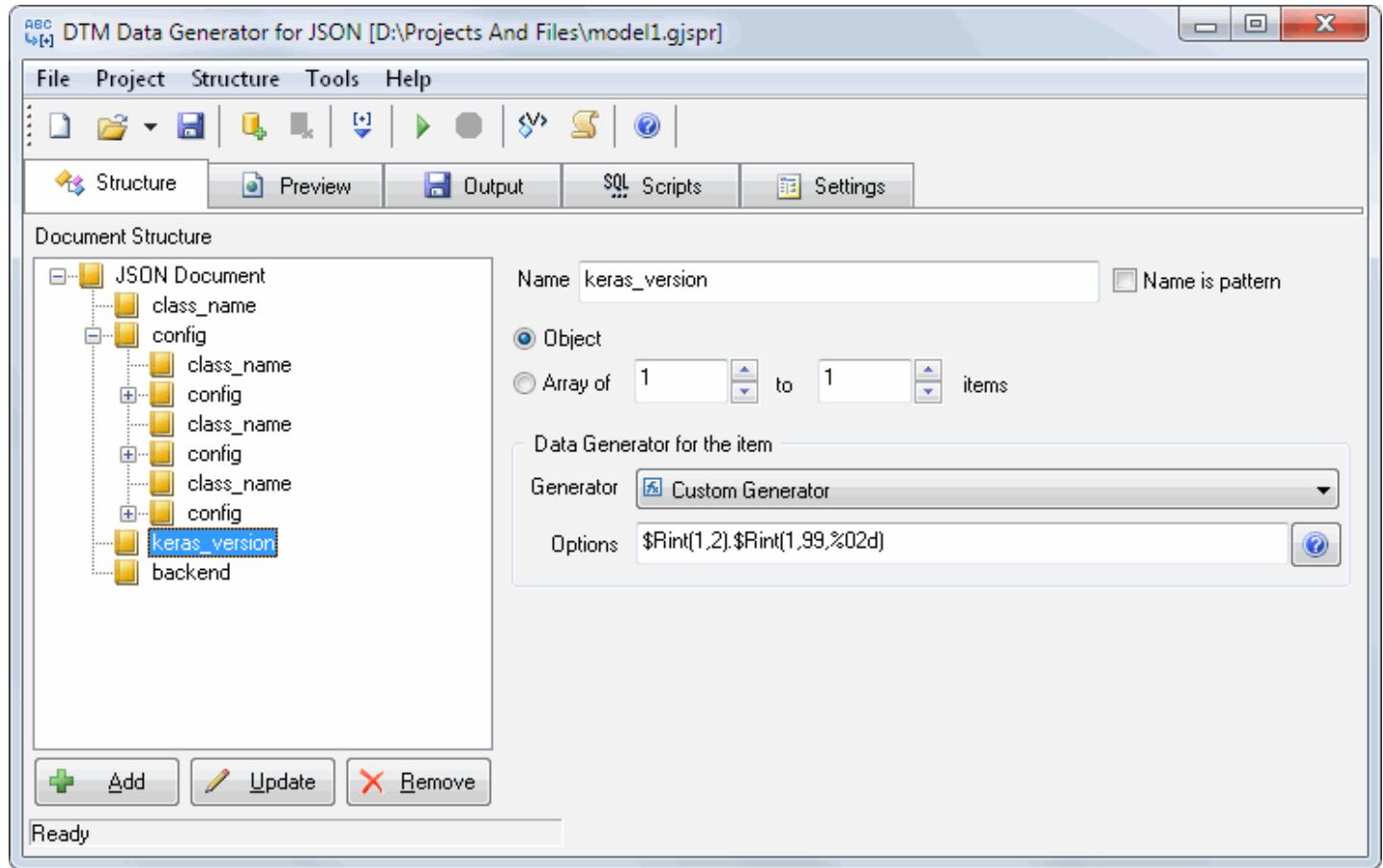


About the test JSON file creation software

DTM Data Generator for JSON was designed to help developers and QA staff to generate test JSON documents.

The document's [structure](#) can be imported from existing [JSON file](#) or entered manually.

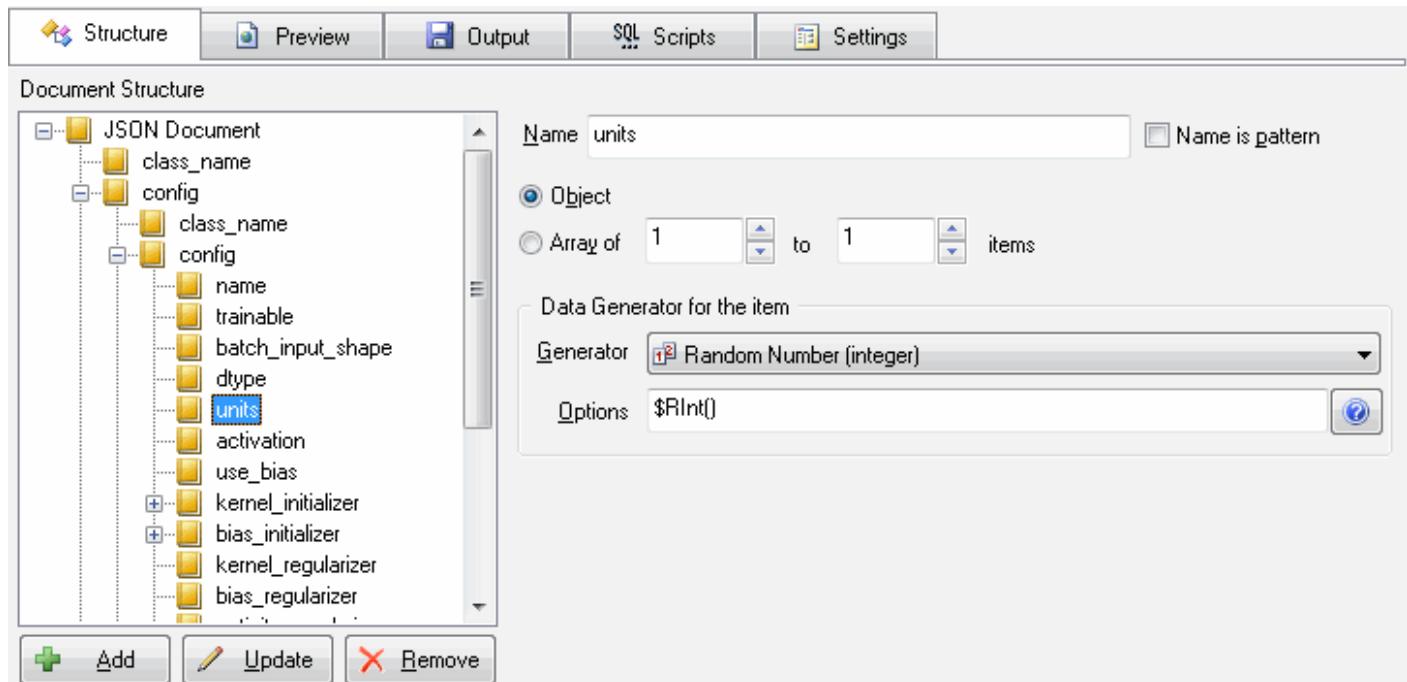


JSON Document Structure Definition

This window helps the user to operate with document structure:

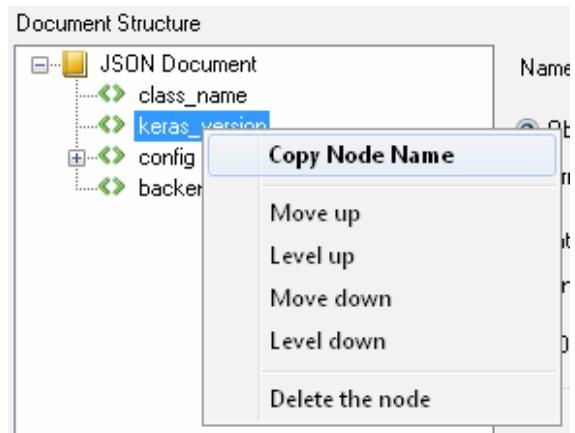
- View and navigate with structure
- Add, remove or rename fields
- Assign data generators for fields

The window has two panels: fields tree at the left side and filed data generation properties at the right. The right panel shows properties for the field that currently selected in the tree.



Context Menu

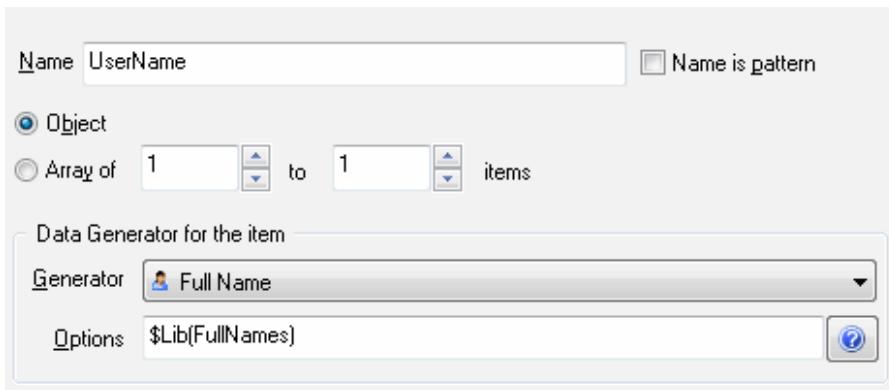
The field tree has the context menu that helps to access node functions: copy selected node name, etc. Also, the menu provides the user with basic stricture management operations: moving, deleting.



How to add...

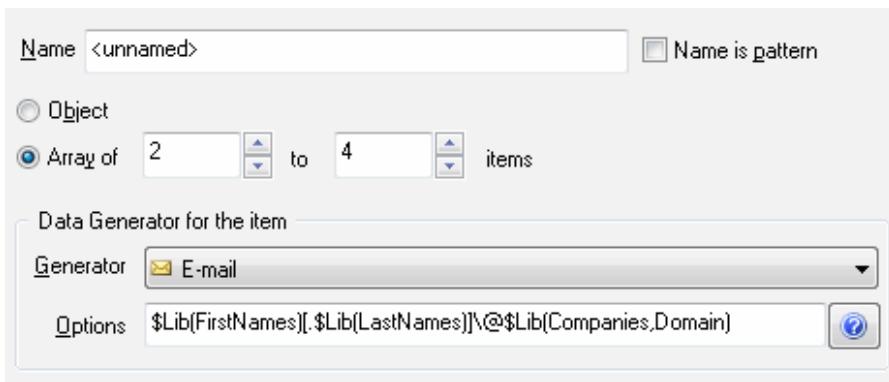
Object

1. Enter item name in the "Name" edit box. The program allows you to enter data generation engine call as a name if necessary. Use "is pattern" check-box for this purpose.
2. Click "Add" button
3. Click "Object" as an item type
4. Assign data generator and options to the item
5. Click "Update"



Array of values

1. Keep item name empty and click "Add". It will be replaced to <unnamed>
2. Set "Array" as an item type
3. Assign data generator and properties for array's elements
4. Click "Update"



Array of objects

1. Create an array as described in the previous section but set "No value" generator
2. Set array length parameters
3. Create child item as an object by clicking "Add"
4. Assign object properties (see Object section above)

In this example we've used \$Inc() function call as a part of item name:

The screenshot shows the 'Document Structure' pane on the left with a tree view of a JSON document containing an array named 'unnamed' with a single item 'Phone\$Inc()'. To the right is the 'Data Generator' dialog for this array item. The 'Name' field contains '<unnamed>'. The 'Type' section is set to 'Array of'. Below it, 'Object' is selected with values '2' to '5' items. A 'Name is pattern' checkbox is checked.

Data Generator for the item

Generator

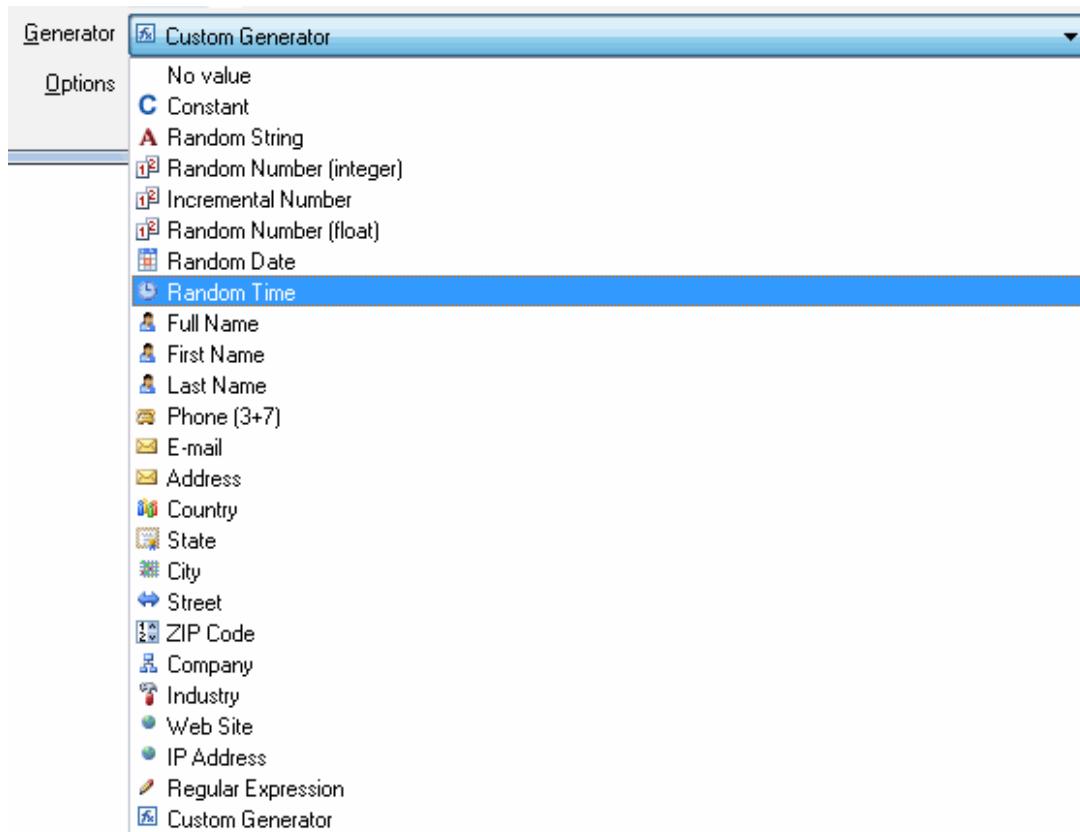
No value

Options



Test Data Generators

The program has test data generators menu. It contains a few most useful generators those can be selected by one click.



There are:

- "No value" makes empty value for node or attribute.
- "Constant" generates fixed value in any case.
- "Random String" create a random alphabetical string.
- "Random Integer Number".
- "Autoincremental Integer Value" creates a sequence of integer values with custom step (1 by default)
- "Random Float Number".
- "Random Date"
- "Random Time"
- "Full Name" generates first and last name string with space separator
- "First Name"
- "Last Name"
- "Phone (3+7)" generates phone number with area code.
- "E-mail"
- "Address" generates home and street address string.
- "Country"
- "State" retrieves random US State name from predefined library.
- "City"
- "Street"
- "ZIP code"
- "Company" retrieves random company name from the predefined value library.
- "Industry"
- "Web Site" generates string like "www.name.com"
- "IP Address"
- Regular Expression
- [Custom Generator](#)

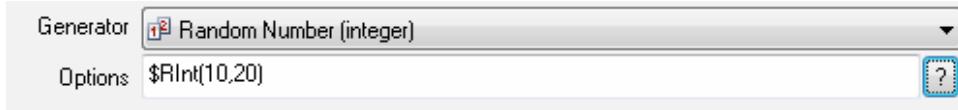
See also: generator options.

Options for the Generators

A few predefined [generators](#) have options.

The user allowed to modify them as part of Pattern Engine call string.

Please refer to Pattern Engine manual for detailed information about all functions and parameters.



Custom Generator

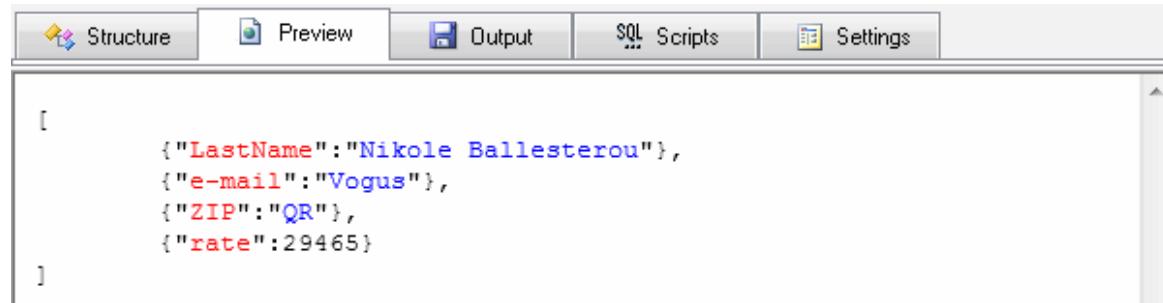
The user can enter any pattern engine language expression as a generator.
To do that just select "Custom Generator" from [generators](#) menu and enter pattern string to "Options" field.

Notes:

- This program provides only limited support for @ and @@ column references due to JSON document structure complexity.
- Reference by column number (@1, etc) is not supported for most cases.
- Reference to attribute value looks as "NODE_NAME/ATTRIBUTE_NAME".

Sample JSON document preview feature

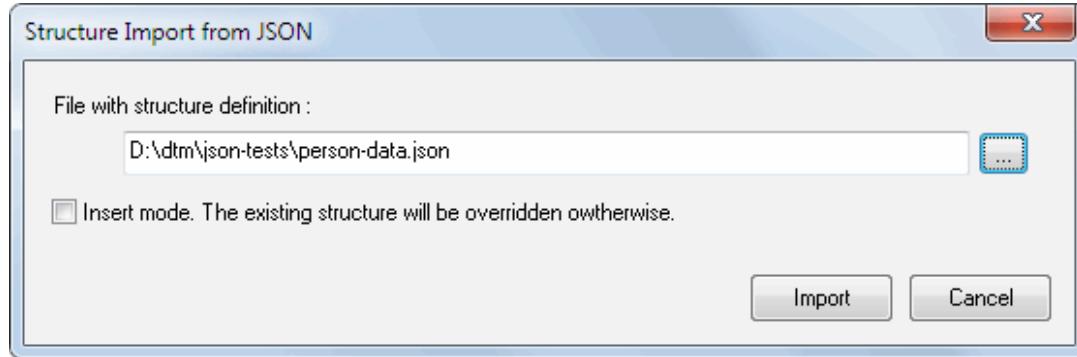
This window allows the user to analyze sample generated JSON Document. To refresh view just leave the tab and back to the preview page once again.



```
[{"LastName": "Nikole Ballesterou", "e-mail": "Vogus", "ZIP": "QR", "rate": 29465}]
```

Import Sample JSON Structure

This window helps the user to import structure of the file from existing JSON document. By default, new structure overrides the existing one. The "Insert" mode adds new entries to existing structure.



Output Options

This tab allows you to select output modes and tune options. There are four output modes:

1. Save all documents to disk files, one per file*.
2. Write output to the standard stream. It is most suitable for [console mode](#) and redirection by '>'.
3. Call external user defined executable for each generated file.
4. Make some REST API call.

* - "Single File" mode saves all created documents to single output file sequentially.

The most important output options are:

A number of JSON files to be generated option is applicable to all output modes.

Mode	Options
Save Files	<ul style="list-style-type: none">• Should the software produce JSON (by default) or BSON files• Output folder*. There is location where the program will create documents• File prefix. The program will add this string before each file name. \$DATE\$ and \$TIME\$ macros allowed
Write to Standard Output	No options
External Executable	Command line for external executable call
REST call	<ul style="list-style-type: none">• Domain or IP address where the server is located• Port number• Path for service call• POST or PUT call method

* - it is recommended to set up this parameter for all modes. The program will use this folder as a temporary.

The screenshot shows the 'Output' tab selected in a dialog box. The 'Number of JSON documents to be generated:' field contains '10'. The 'Save generated files to Folder:' radio button is selected, with the path 'D:\results' entered in the text input field. The 'Single file mode' checkbox is unchecked. Below these, there is an optional output file name prefix field containing '\$DATE\$ and \$TIME\$ macros acceptable.' Under the 'Save generated files to Folder:' section, there are three other radio button options: 'Write generated documents to standard output', 'Run executable for each generated file. Command line, use \$FILE\$ for file name:', and 'REST API Call'. The 'REST API Call' section includes fields for 'Server:', 'Port:', 'Path:', and 'Call Type:' (set to 'PUT').

Scripts

The program allows users to specify four optional SQL scripts.
The generator runs scripts in the following cases:

1. At the begin of the project execution
2. Before one JSON file generation
3. After file generation
4. After end of the project execution

The screenshot shows a software interface with a toolbar at the top containing 'Structure', 'Preview', 'Output', 'SQL Scripts' (which is selected), and 'Settings'. Below the toolbar are four text input fields for SQL scripts:

- Project level Prologue script:** A large empty text area.
- Single XML file Prologue script:** An empty text area.
- Single XML file Epilogue script:** An empty text area.
- Project level Epilogue script:** A large empty text area.

A note above the first text area states: "Important: all scripts require default database connection!"

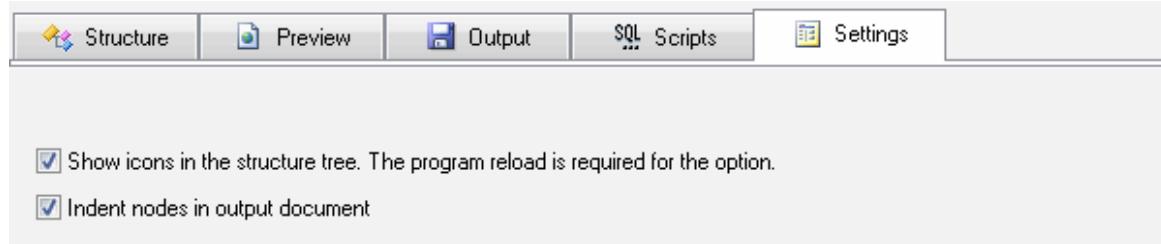
Note: [default connection](#) is required for this feature.

See also: [macros](#).

Product Settings

The settings allow you to tune the generator's interface or change behavior. Most important settings are:

- Should the program show icons in the file structure tree. The default is 'Yes'.
- Indent mode switched on produces additional spaces before tag name in the output JSON document.
- "No CR/LF" mode enables the user to build compact machine readable file without extra symbols. It is strongly recommended to use it with "Indent mode" switched off.





Macros

The program provides following macros to make generation process more flexible.

Macro	Definition	Applicable to
\$FILE_N\$	Number of currently generated file starting 1.	Patterns, scripts
\$DATE\$	Current date. Default format is DDMMYYYY	Output file name
\$TIME\$	Current time. Default format is HHMMSS	Output file name



Default Database Connection

The user allowed to specify default connection to database. Please use toolbar button or menu item to define it.

This connection can be used in two cases:

1. Prologue and epilogue SQL scripts execution
2. For pattern engine functions requires database connection (\$Query, \$Table, \$TableGroup, etc)

Performance Note: do not establish default connection if you actually do not use it.



Connection Quick Start Guide

Database	How to connect
MS SQL Server	Enter or select server name at the direct connection panel
Local SQL Server Express	Enter .\SQLEXPRESS as server name at the direct connection panel
Oracle	1) Switch to data sources mode 2) select OCI as "Interface" 3) select your service name from data source drop-down menu
DB2	Use direct connection panel or Use predefined ODBC DSN for custom connection settings
MySQL	Install ODBC driver for MySQL from www.mysql.org Use direct connection panel or Use predefined ODBC DSN for custom connection settings
PostgreSQL	Use direct connection panel or Use predefined ODBC DSN for custom connection settings
Interbase/Firebird	Install ODBC driver Use direct connection panel or Use predefined ODBC DSN for custom connection settings
Microsoft Access	1) Switch to " Desktop File " panel 2) Select "Access" as file type, enter or select file name
Microsoft Excel	1) Switch to " Desktop File " panel 2) Select "Excel" as file type, enter or select file name
<i>Another database</i>	1) Install ODBC driver for your database system 2) Create ODBC data source name using Windows ODBC Administrator 3) Switch to data sources mode 4) select your data source from drop down menu

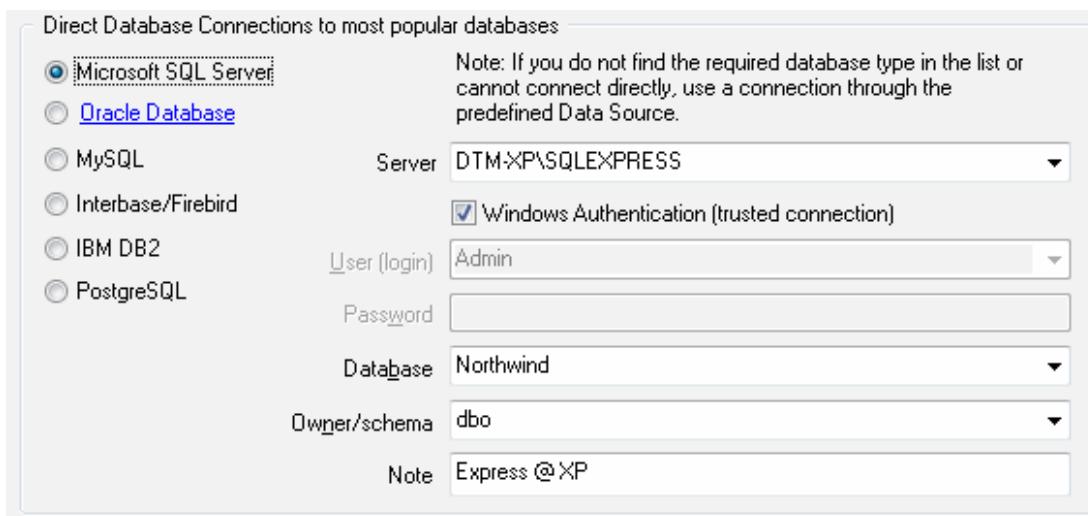
Direct Database Connection

Direct Connection

The direct connection method allows you to connect to most popular databases ([MS SQL Server](#), [Oracle](#), [Interbase/Firebird](#), [MySQL](#), [PostgreSQL](#) and [DB2](#)).

Enter the server name and the database name, if required. The user name and password are optional. Their necessity depends on the settings of your database. The owner name (schema) is optional too. The list of visible database objects depends on the choice of the owner. If the owner is empty, you will access all objects. There is important that schema/owner name is case sensitive.

If you do not find the required database type in the list or cannot connect directly, use a connection through the predefined data source. If DBMS is in the list, but unavailable, it means that either the required ODBC driver is not installed or it is not configured properly. During its use, the program stores the entered values of server names, users and owners. You can select a value from the stored list using the corresponding combo box. For some DBMS types (MS SQL, for example), the program can fill the list of available databases. Use the button with two arrows for this purpose.



DBMS-specific connection options

Microsoft SQL Server

- "(local)", empty or "." server name means local server
- use <server name>\<instance name> syntax to identify instance. Example: .\SQLEXPRESS means SQL Express at the local system

Oracle

Use connect string for the Oracle Server that you want to access as a Server name.

Important: it is strongly recommended to use native Oracle Call Interface ([OCI](#)) instead of direct connection.

Interbase and Firebird

Examples:

- Server: **localhost** and Database **c:\interbase\myDb.fdb** - connect to specified DB on local system.
- Server: **172.17.2.10/3051** and Database **/usr/local/db/myDb.fdb** - connect to specified server with alternate port 3051 on remote system 172.17.2.10

MySQL

- Use **localhost** for local MySQL
- example.com;port=3306 means MySQL at example.com on 3306 port

DB2

ServerName;port=5000;protocol=TCPIP as a server name means connect to ServerName, use 5000 port and TCP/IP protocol.

PostgreSQL

ServerName as a server name means connect to ServerName, use 5432 port and TCP/IP protocol. Database name is required. localhost as a server name is acceptable. To specify custom port you should add ";port=NNNN" string to server name.

server_name_or_ip-address;port=5432;DATABASE=dbname

Desktop File Connection

Desktop Files

The second way is designed for connecting to desktop data files. Select the required format and specify the file name or the directory where the data is located. Other parameters are optional.

Connections to Desktop Data File

Text file (*.txt, *.csv). Format : Delimiter :

Microsoft Access file (*.mdb, *.accdb) use Microsoft Jet (ODBC by default)

dBase, FoxBase or FoxPro file (*.dbf)

Microsoft Excel file (*.xls, *.xlsx, *.xlstb)

Paradox file (*.db)

FoxPro database container (*.dbc)

SQLite database

Location

Authentication information, optional :

User / Login

Password Note

Read Only mode

Data Sources

Predefined data sources: ODBC, IDAPI, Oracle Call Interface

A connection with the use of a data source is the most universal. You can select ODBC, IDAPI or OCI (if installed) interface and the preconfigured data source name. In this case, other options are similar to those of a direct connection. The "Manage" button allows you to get access to the external configuration utility if it is available. When you want to access the tables belonging to the single database schema (or owner), you should fill the "owner" entry; otherwise, all tables will be accessed.

Connections to existing and configured data sources

Interface	ODBC	<input type="checkbox"/> Manual commit
Data source	localserver	Manage...
User (login)	sa	
Password	*****	
Database	Northwind	
Owner	dbo	
Note	Local SQL Server	

DSN File

The fourth way is using a DSN file. For this case, just select the file name with DSN definition.

Connections to existing and configured file DSN

File DSN name	d:\sales_report.dsn	<input type="button" value="Browse..."/>
Note	<input type="text"/>	

OLE DB Connection

OLE DB connection

Use 'Configure' button to specify connection information. Password and owner fields are optional.

Connections using OLD DB providers

Connection properties

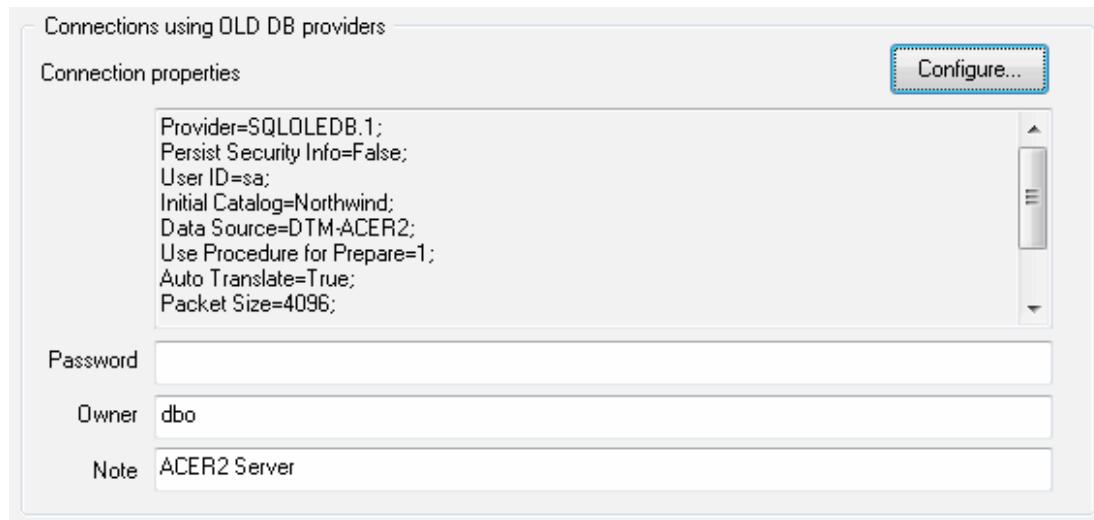
Provider=SQLOLEDB.1;
Persist Security Info=False;
User ID=sa;
Initial Catalog=Northwind;
Data Source=DTM-ACER2;
Use Procedure for Prepare=1;
Auto Translate=True;
Packet Size=4096;

Configure...

Password

Owner dbo

Note ACER2 Server



Connection Profiles

Connection profile helps you to save information about your connection (interface, data source or alias name, user name (login), password and database name, etc) and get access it by the one click.

Please fill connection properties and press "Add as new" to add a new profile. To modify the profile you should select it from the list at the top of the window, modify properties and press "Update". "Delete" button works when you select the profile to be deleted in the list.

"Save" and "Load" buttons allow you to save profiles to the disk file or load them. The "Export one" button helps to save single currently selected profile.

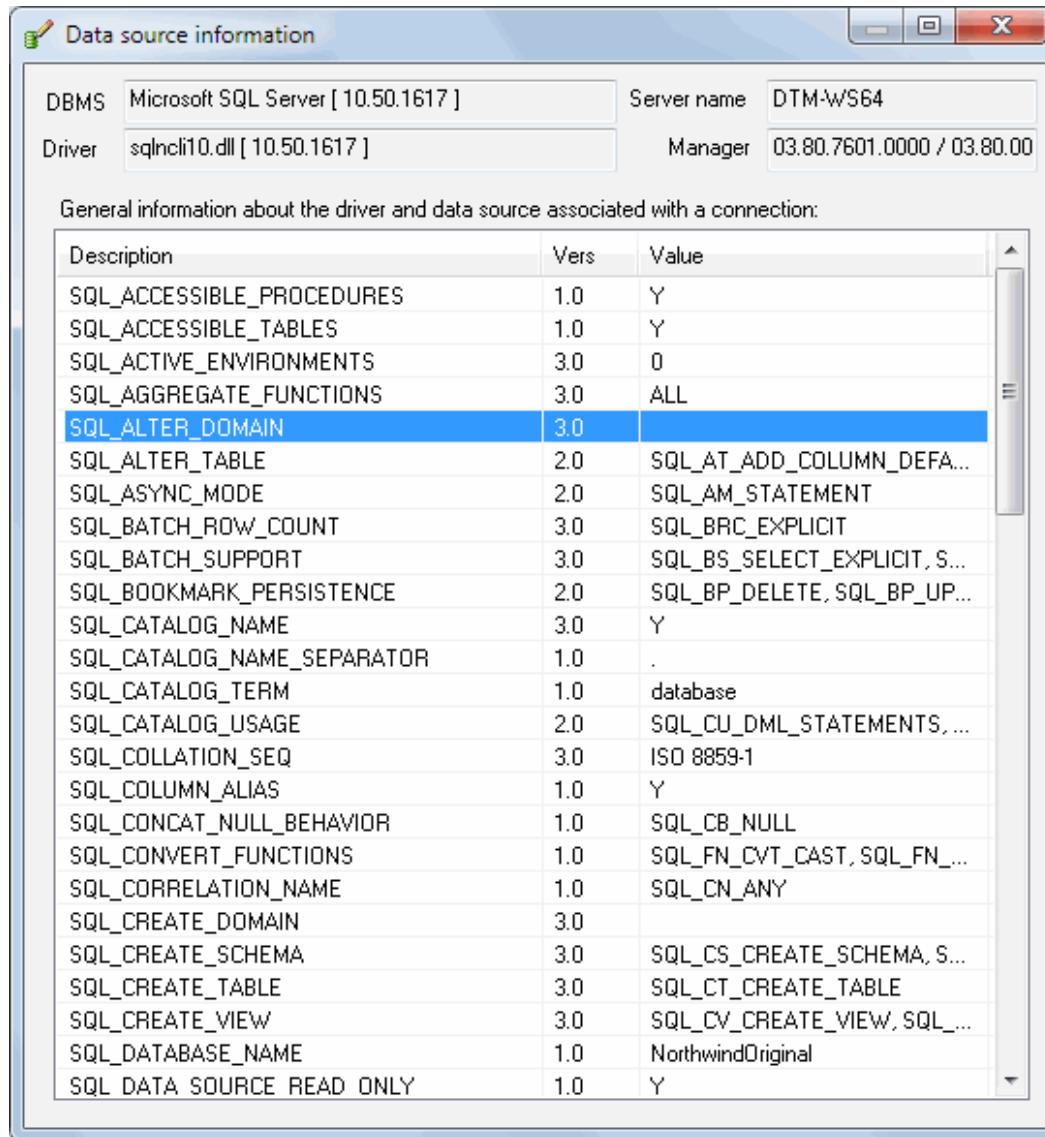
Important: all profiles are shared between all installed DTM soft products. That means once created profile can be used with any tool. At the other side if you remove the profile from the list you can't use it with DTM soft's products anymore.

Connection Profiles						
Mode	Interface	Source or Server	User	Owner	Database	Note
Direct	ODBC	.			Northwind	Local server
Direct	ODBC	DTM-XP	sa		AdventureWorks	
Direct	ODBC	.		dbo	NorthwindOriginal	Local Read Only DB
DSN	ODBC	Saramdb				SaraMDB
DSN	ODBC	test_new				Test MDB
Desktop	ODBC	ACCESS				Test MDB
DSN	ODBC	test_old				Test MDB
Direct	ODBC	.		dbo		
Direct	ODBC	.		dbo		2
DSN	OCI	ORCL	OE			ORCL/OE
DSN	ODBC	ORCL_ODBC	OE	OE		ORCL/ODBC
DSN	OCI	10G	OE			Oracle 10g (VM)

Add as New **Update profile** **Remove profile** **Export One...** **Save...** **Load...**

Connection Information

The program provides detailed database, connection and driver information and properties. The "Information" button at the connect window allows you to view it.



Database Connection Troubleshooting Guide

Troubleshooting Guide

Problem description	Possible reason	Solutions
Required database type not present in the list at Direct Connection and Desktop Connection pages		Switch to "data source" connection mode and select data source from the list or configure new one with "Manage" button.
Required format is in the direct connection list, but not available (disabled).	ODBC driver for your database does not installed or not configured properly.	Install required driver. If it is already present in the system, please contact our support staff .
Errors during direct connection.	Compatibility problems.	Try to create data source for your database connection.
Login error for correct user name and password.	Read-only desktop data file.	Try to change file mode to 'read and write'.
I can't see relationships, defaults, etc in my Access Database.	Access interface.	Try to switch on "Use Microsoft Jet" check box at the "Desktop File" page of the Connect Window.

Command Line Options

DTM Data Generator for JSON supports following command line switches:

-r - if project configured, run the project at program startup

-q - quit the program after project execution.

-c - switch to 'console mode'.

-x<file.xsd> - import structure from sample JSON file.

Also, the user can provide project name as a command line parameter. Please note that you should use quotation for path or filename with spaces:

xmldg.exe "D:\Projects and Data\test1.gjspr"

The 'console mode' is a mode when the program doesn't open any windows and doesn't need any interference from the user. A project for the console mode must be prepared and tested beforehand. This mode enables the user to integrate the product with the Windows task scheduler as well as to execute projects prepared beforehand according to the schedule.

What differences between the demo and full versions of DTM Data Generator for JSON?

General functions

- Demo generates up to 5 test files per project.
- Demo does not allow users to add more than 20 nodes except import structure feature.

Supplemental functions

- SQL console partially replaces result values to DEMO string.

No other demo limitations are present except nag-screen at program shutdown.

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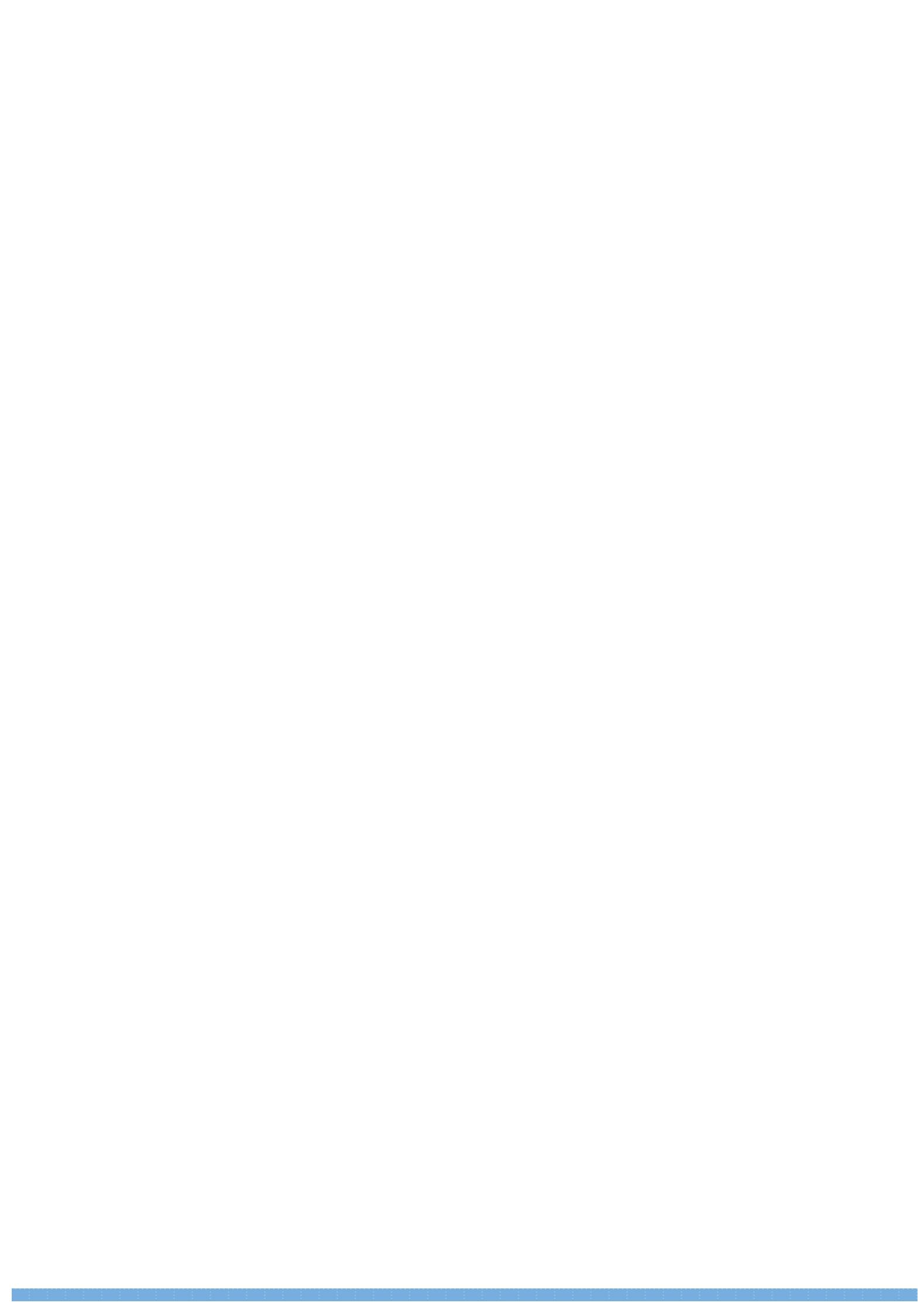
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Technical support

If you have some question or unusual problem feel free to contact the DTM Data Generator for JSON technical support at support@sqledit.com

When you contact technical support, you should be prepared to provide the following information:

- DTM Data Generator for JSON version (you can find this information from About menu item of Help menu).
- Type and version of the ODBC or IDAPI driver or OLE DB provider.
- DBMS version and operating system version (including service pack version, if applicable).
- DTM Data Generator for JSON Log file.
- A description of what you do before the problem occurs.
- Error messages you see when the problem occurs.
- Your name, company name and how to contact you.

See Also: [log_file](#)



Program Installation

To run installation program:

- Open the windows Start menu and select "Run" item
- Select or enter installation file name and path (dgjson.exe or dgjson_d.exe)* and click OK

* - professional and enterprise editions of the tool may have another suffix.

Notes:

- Please be sure that existing version of the tool is not running when you install a new version.
- We recommend to [uninstalling](#) old version of the DTM Data Generator for JSON before new version installation.
- Installation by administrator for another user is supported for most environments.



Uninstall the Software

The Uninstall feature removes all installed DTM Data Generator for JSON components and all records in the Windows registry made by the installation script. You can uninstall this program by selecting the "**DTM Data Generator for JSON**" item in "**Add/Remove Programs Dialog**" in "**Control Panel**".

Another uninstallation way is to run "unins000.exe" from the product's folder directly.

Important! Uninstall feature of the program does not remove files and objects created by users such as configuration files, registry records etc.



How to upgrade your copy of DTM Data Generator for JSON?

The user can refer to "Check for Update" features to get information about available updates.

Please contact our support staff at support@sqledit.com to upgrade commercial version of the tool.

Demo version is available for [download](#) free of charge.

When you upgrade your copy of DTM Data Generator for JSON please send us the following information:

- Your name, company name and how to contact you
- Payment information (at least "ORDER No" and "Date")



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Database utilities by DTM soft

[DTM SQL Editor](http://www.sqledit.com/editor) (www.sqledit.com/editor) is a set of powerful database management tools that allow you to achieve two goals - to have unified access to different types of databases and to have a set of solutions that makes processing your data easy. DTM SQL Editor gives database users, developers and administrators an ability to access different databases, whether desktop or client-server ones (provided you have ODBC driver installed). This is very convenient, since most organizations use several different types of databases installed and each stores data in different formats and with varying parameters. Having a program that can get data from various sources is often essential. Furthermore, in addition to letting you quickly switch between different data sources, DTM SQL Editor lets you see database schema and results of the query execution.

[DTM Migration Kit](http://www.sqledit.com/mk) (www.sqledit.com/mk) is a powerful yet simple data migration tool that comes in handy if you run multiple databases. Use it to import, export or migrate data between different data sources (ODBC, OLE DB, or Oracle Call Interface supported). The program is fully automatic and supports all popular database formats. Simple visual interface lets you set own transformation and flow control rules to give you added flexibility.

[DTM Schema Reporter](http://www.sqledit.com/sr) (www.sqledit.com/sr) is a reporting tool for database schema. The program creates reports in RTF, HTML, XML or plain text formats and supports all common database interfaces - ODBC, OLE DB, or even Oracle Call Interface. This utility helps technical writers and database administrators create a report of any complexity level within seconds. Also, you can alter table order in the report and manually add annotations to the individual tables.

[DTM Data Generator](http://www.sqledit.com/dg) (www.sqledit.com/dg) is a simple, powerful and fully customizable utility that generates data for database testing purposes. Currently, database developers and administrators often have to spend hours of dull work to create test data sets before examining database performance. This tool makes all this unnecessary by automatically creating database objects AND sets of SQL statements, if necessary.

[DTM Data Editor](http://www.sqledit.com/de) (www.sqledit.com/de) is a data viewer and editor for database professionals who are tired of wasting their time on mundane tasks. The program uses form-based interface and works with any ODBC data source. SQL statements are generated automatically and can be modified later. For data that has foreign key - primary key relation, there are options to enter values manually or select them from a list, which is much faster.

[DTM DB Stress](http://www.sqledit.com/stress) (www.sqledit.com/stress) is a utility for stress testing the server parts of information systems and applications, as well as DBMSs and servers themselves. This tool allows you to create and configure a continuous set of requests to the server of the OLAP (query execution) and OLTP (adding, modifying and deleting data in the database) types. At the same time, the user can flexibly change both the number and the priority of this or that type of requests to a database or an application.

[DTM Data Modeler](http://www.sqledit.com/dm) (www.sqledit.com/dm) is a CASE tool for database developers that supports both forward and reverse engineering. It is an easy-to-use tool allowing you to work both with logical and physical data models in the form of an entity-relationship diagram. The product is intended for database architects and developers and works with data sources via the ODBC interface, which means compatibility with all modern DBMS. Along with basic model properties (sets of entities and relationships between them), the program allows you to create indexes and triggers on the physical level corresponding to the tables of the database that is modeled.

[DTM Data Scrubber](http://www.sqledit.com/scr) (www.sqledit.com/scr) is a set of intelligent tools for data verification (audit) and scrubbing (cleaning). Depending on user-defined rules and data properties, the program either creates a report about the actual state of affairs or performs database data correction.

[DTM Data Comparer](http://www.sqledit.com/dcmp) (www.sqledit.com/dcmp) is a visual tool for data compare and synchronization. The program successively views the contents of both tables basing on the order of ascending of unique key values and shows differences or creates synchronization script.

[DTM Schema Comparer](http://www.sqledit.com/scmp) (www.sqledit.com/scmp) is a tool for database schemas comparison and synchronization. The comparison process supports tables, views, indexes, triggers and stored procedures. The visual representation of database schemas as a tree makes the comparison process more comfortable.

[DTM Query Reporter](http://www.sqledit.com/qr) (www.sqledit.com/qr) is a reporting tool for database query. This utility helps technical writers, developers and database administrators create a report based on database query within seconds.

[DTM Schema Inspector](http://www.sqledit.com/si) (www.sqledit.com/si) is a database schema browsing and management tool that let you work with database schemas more effectively.

[DTM DB Event](http://www.sqledit.com/event) (www.sqledit.com/event) is a database monitoring and management tool. This utility allows the user to define a few situations (events). For each event the user can define what the program should do if the event is occur.

[DTM Flat File Generator](#). Easy to use tool that helps any developer or QA engineer to create test data file. It supports tab-delimited, CSV, fixed width and custom separated output files. The generator has powerful import and export file structure features.

[DTM Test XML Generator](#). The tool is powerful generator for XML documents with structure defined by user and random but realistic data. More than 30 predefined generators with powerful pattern engine. The rich import XML structure options are available.

[DTM Data Generator for Excel](#) is a tool for text Excel spreadsheet population. Easy to use interface based on predefined generators, rich value library and high performance.

[DTM Data Generator for JSON](#) produces JSON files with defined structure in a bulk manner. Fast and easy structure editor and smart import options helps the user to generate test set in a few clicks only.

[DTM Database Content Analyzer](#) is a statistical tool for database content. It collects a few dozens of most interesting data: database objects size, value frequency, clusters, etc. This tool replaces and extends "Statistics" report of obsolete versions DTM Schema Reporter.

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Glossary

Database catalog - The collection of system tables, tables that store metadata about that specific database.

Database record - one row in a table (table can be a result of SQL-query).

Database schema - logically connected, usually owner-based, set of DBMS objects (tables, views, procedures etc).

DBMS - database management system.

DBMS connection - the fact that both client and DBMS server have signed a contract and ready to query and data communications.

Drag-n-drop - the file manipulation technique when the mouse is used to move the file from the place of storage to the program, which performs processing.

SQL language - the declarative language used to manipulate the data and its' structure in the modern DBMS and their client applications.

IDAPI - Integrated Database Application Program Interface, unified DBMS access interface.

OCI - Oracle Call Interface, access interface for Oracle Server.

ODBC - Open Database Connectivity, unified DBMS access interface.

Metadata - information about data. See also: database schema

SQL statement - single SQL operator having the complete role in a data manipulation script.

SQL-server - program or program complex, which is able to execute the SQL-queries.

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Log file

When running the program, you have to select one of menu items from "**Tools->Log file**" in order to view or truncate your Log file. The log file contains the detailed description of any errors and other events that occurred while processing script.

Default log file location is product's directory and the name is ERROR.LOG. When the user has no enough permissions DTM Data Generator for JSON saves log to typical path like C:\Documents and Settings\<username>\Application Data\dgjson.log or C:\Users\<username>\AppData\Roaming\dgjson.log

The log file is a text file that contains three type of records:

1. The software product identification block: product name version and operating system information.
2. Error records: wrong SQL statements, exceptions, etc.
3. Notification and statistics.