

ComGage – Test step function SFct049 “SQL database interface”



1. Introduction

The ComGage test step function “SQL database interface” allows to write saved measuring values into an SQL database.

The license module 72 and a license for the software TxtToSql (available at www.withdata.com) are required to use this test step function.

Die SFct049 works in the following way :

- It creates a CSV file with the selected data in a selectable format.
- Via the command line, the SFct049 executes the TxtToSql software with the database information and passes the CSV file as parameter.
- The TxtToSql software writes the content of the CSV file into the database.

Note :

As an alternative, the following 2 test step functions can be used to store data in any format in the database :

- SFct047 = Universal Export Module
→ to create the CSV file
- SFct031 = Execution of a file
→ to execute the TxtToSql software for uploading the data into the database

2. Instructions for using the function

Please follow these instructions for using this ComGage test step function :

1.) Add the function “SQL database interface” in your test scheme :

Note : The data has to be saved in a CSV file by the integrated function, before it can be uploaded to the database.

The screenshot shows the 'SEQUENCE (Test Step-Programming)' window with the following fields:

- Article Number: Art_0715
- Article Name: Shaft
- Test Step Number: S1
- Test Step Function: Collection of measuring values

The 'LIST OF FUNCTIONS' list includes:

- Read bar code / data matrix code over RS232
- Communication over IMB-sm Module
- Freeze / Release measurement
- Convert mea. value into Binary/BCD-Format
- Output of a polar diagram
- Universal Export Module
- SQL database interface**
- Passcode-Check
- Tolerance analysis
- Output of a X/Y / Scanning / F/D diagram
- Search reference information dataset in table
- Communication over pb_adp / pn_adp
- Master-Calibration by averaging of several raw-va
- Output of characteristic value into keyboard buffe
- Import of Reference Information from file
- Show register values

The 'PROGRAMMING OF SELECTED FUNCTION' window shows:

- Function: SQL database interface
- Comment:
- Function key: ---
- Hand/Footswitch:

The 'SQL database interface' configuration dialog shows:

- SQL server:
- SQL database:
- Username for SQL server:
- Password for SQL server:
- CSV file generation: off
- CSV-Filename (without path and file extension):
- Configuration file for upload:
- Create configuration file button

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- 2.) Activate the “CSV file generation” and enter a name for the CSV file without path and without file extension :

CSV file generation

Format 1 (Date;Time;Ser-No;C1;C2;C3;C4;C5;...)

CSV-Filename (without path and file extension)

Art_0715_CSV_File

When the function is called in measuring mode, ComGage appends the new dataset (in this example) to the CSV file “Art_0715_CSV_File.csv”. This CSV file is then uploaded into the SQL database.

- 3.) Click the button “Create configuration file”. The software “TxtToSql” from www.withdata.com opens automatically. Enter your SQL database login data :

Note : The software TxtToSql has to be in the directory from which ComGage is started.

Logon - TxtToSql

Server: IBR_SERVER

Authentication: SQL Server Authentication

User Name: sa

Password: Save Password

Database: TEST_PROJECTS

Connect Help

Not Connected.

- 4.) Enter the same login data in the setup dialogue of the ComGage test step function “SQL database interface” :

SQL database interface

SQL server: IBR_SERVER

SQL database: TEST_PROJECTS

Username for SQL server: sa

Password for SQL server: xxxxxxx

Logon - TxtToSql

Server: IBR_SERVER

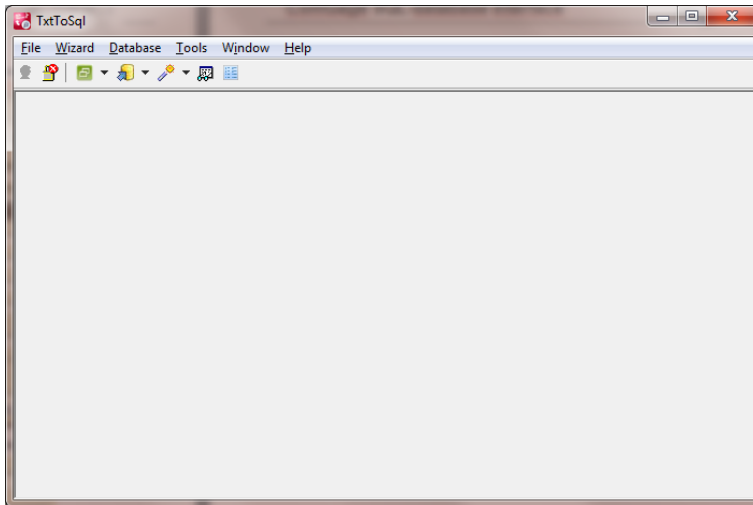
Authentication: SQL Server Authentication

User Name: sa

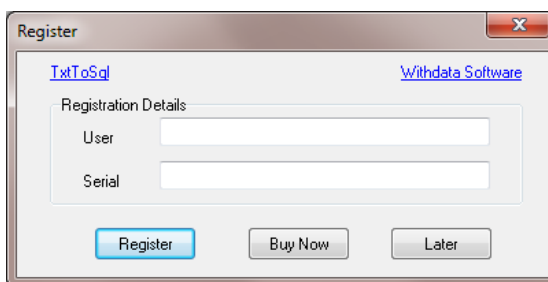
Password: Save Password

Database: TEST_PROJECTS

- 5.) Click the “Connect” button in the “TxtToSql” login window and the “Close” button in the next window. After this, the main window of the “TxtToSql” software is displayed :

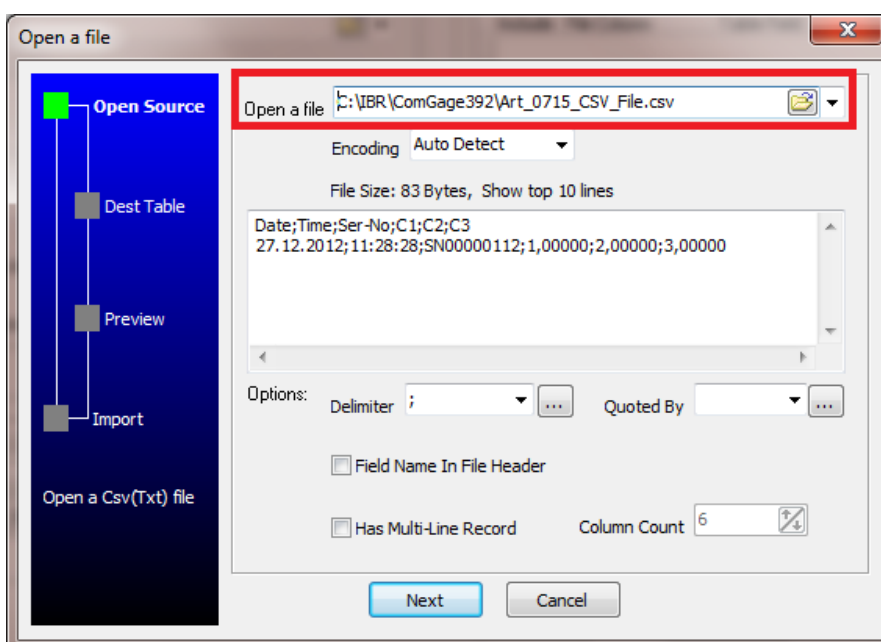


- 6.) Call the menu “Help / Enter registration code” and buy a license for the “TxtToSql” software from www.withdata.com :

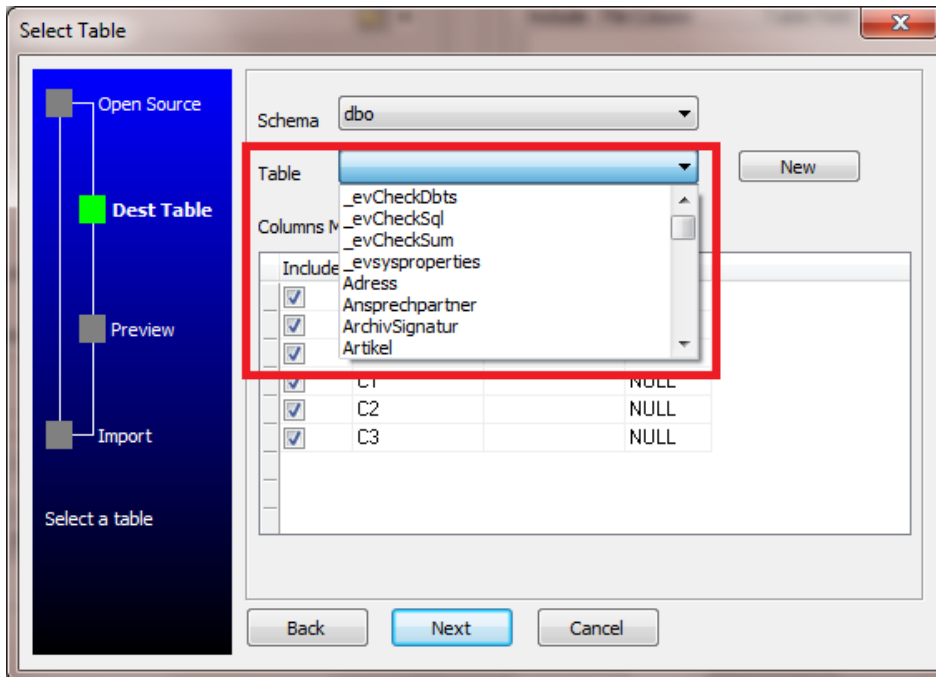


- 7.) Call the menu “Wizard / Wizard-Import from file” :

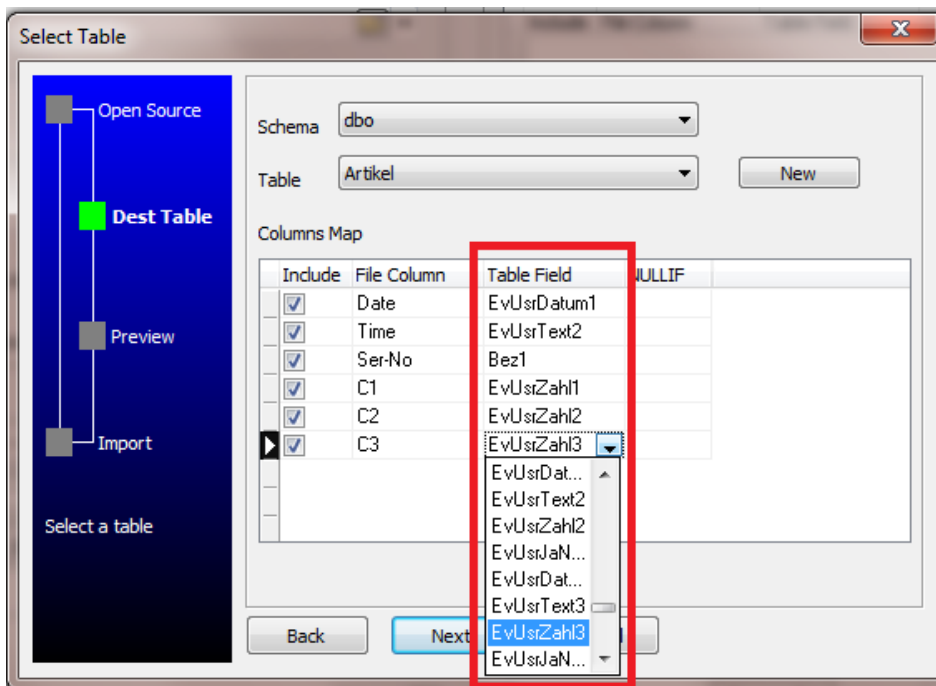
- a) Select the CSV file (see 2. → the function has to be executed once in measurement mode in advance to create the CSV file) and click the “Next” button :



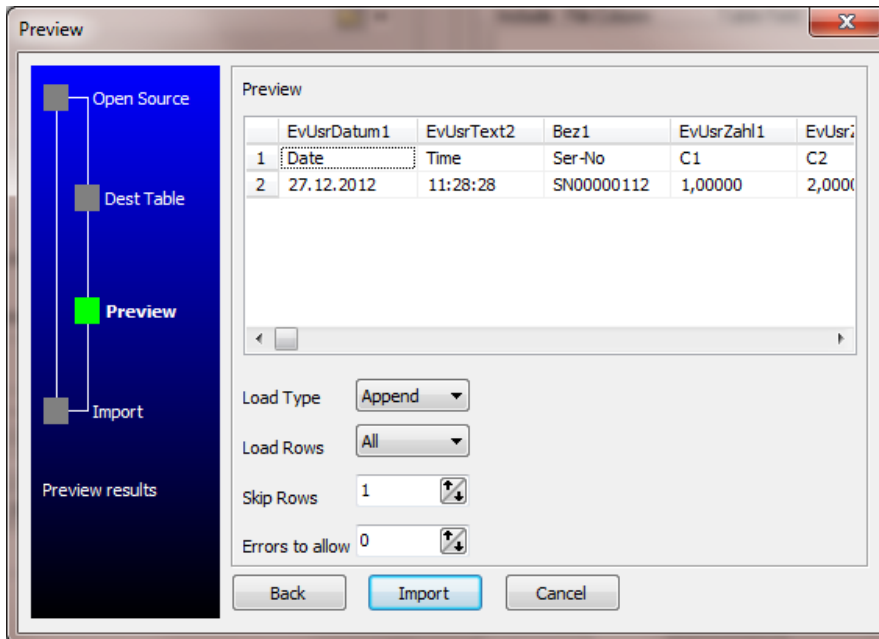
b) Select the required table of the SQL database :



c) Assign the table fields of the SQL database to the columns of the CSV file :

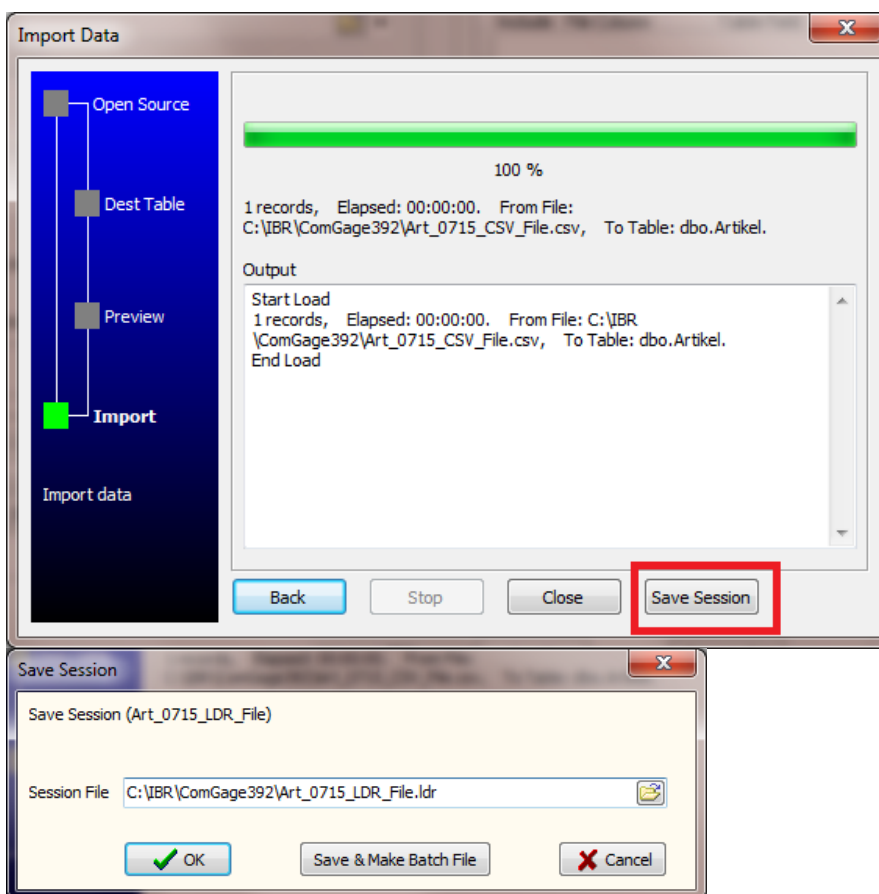


d) Activate the option to skip row 1 (“Skip Rows = 1”) and click the “Import” button :



e) The test dataset is imported into the SQL database.

f) Click the “Save Session” button and save the settings of the “TxtToSql” software in the configuration file (*.ldr) :



g) Close the “TxtToSql” software completely.



- 8.) Select the created *.ldr file as “Configuration file for upload” :

- 9.) In the measuring mode the software appends the new dataset to the CSV file and executes “TxtToSql” to upload the CSV file into the database.

If the upload was successful, the test step function “SQL database interface” deletes the CSV file.

If the upload fails, the test step function “SQL database interface” outputs an error message without deleting the CSV file.

For the next part a new dataset is appended to the CSV file, so the CSV file now contains two datasets, and so on. When the connection to the SQL database is re-established, all datasets in the CSV file are uploaded and the CSV file is deleted.