

**a:control**  
Serialization Plugin



**Diagraph GmbH**  
Friedrich-Bergius-Ring 30  
97076 Würzburg  
Germany

Phone: +49 (0) 931-25076-0  
FAX: +49 (0) 931 25076-50

E-Mail: [support@diagraph.de](mailto:support@diagraph.de)  
Web: [www.diagraph.de](http://www.diagraph.de)

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### **Disclaimer:**

All screenshots and images (screenshots) of the application in this document are to be regarded as exemplary surfaces and are subject to the copyright of Diagraph GmbH.

## 1. Systemrequirements

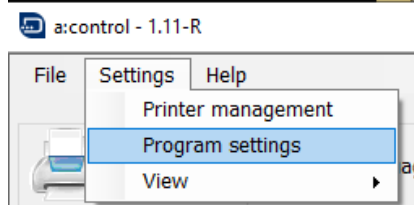
| PC-Hardware                              | Requirements                                             |
|------------------------------------------|----------------------------------------------------------|
| Prozessor                                | 1.0GHz or higher                                         |
| RAM                                      | min. 2 GB (Recommended: 4 GB)                            |
| HDD                                      | 150 MB available in the hard disk<br>+ space for formats |
| Mouse, Keyboard, Monitor or Touch-Screen | Monitor resolution min. 800x600, 16 bit color            |
| Networkcard                              | Ethernet                                                 |
| RS232 / COM Ports                        | One COM-port for each serial connected printer           |
| USB- Ports                               | USB A for data exchange via USB-device                   |
| Software                                 | Windows 10<br><br>Microsoft .NET Framework 4.6           |

It's absolutely possible that the software is running without problems on differing system constellations. The performance of the application will possibly slow down with older hardware. Most important for a faultless application execution is enough free working memory and hard disk space.

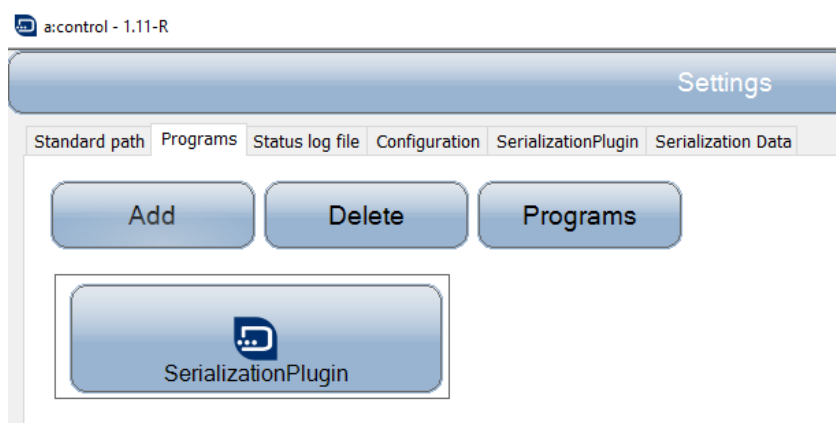
| Printer-Hardware | Requirements                                                          |
|------------------|-----------------------------------------------------------------------|
| Printer model    | <b>NGT-Series:</b> NGT2, NGT2+, NGT4, NGT4+, NGT6, NGT6E, NGT8, NGT8E |
| Firmware         | <b>NGT-Series:</b> Current printer firmware >= Version N.8.6          |
| Connectivity     | Serial, Ethernet                                                      |

## 2. Installation

- Open Program settings



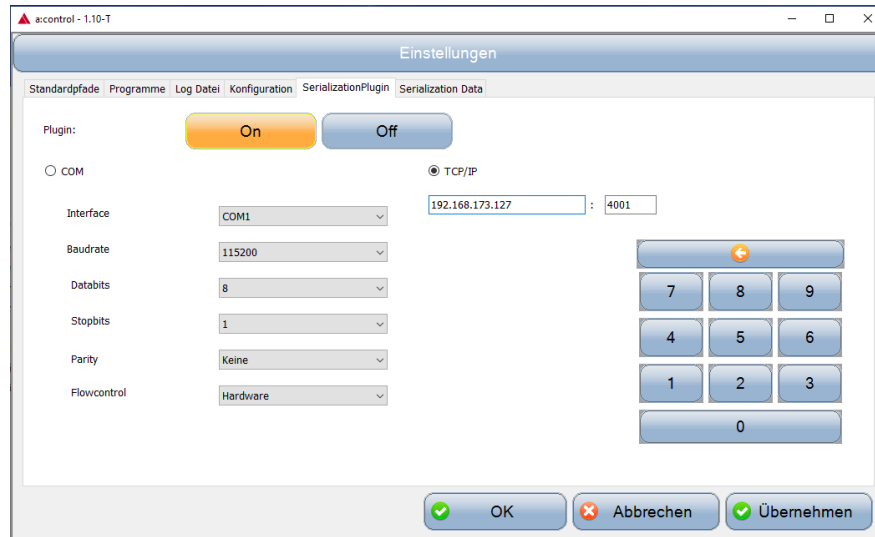
- Navigate to Programs-> Add and select the plugin. After the installation, the plug-in appears under the "Programs" tab. It can also be uninstalled again with the "Delete" button.



- a:control recognizes the files on the USB stick and offers an installation.
- Alternatively, you can also copy the plug-in to a USB stick and then start the a: control software. a: control recognizes the files on the USB stick and offers to install them.

## 3. Settings

In the program settings you can make the necessary settings for the plugin. (Menu -> Settings -> Program Settings)



For processing an Excel database, the connection string should be as follows:

**Provider=Microsoft.ACE.OLEDB.12.0;Extended Properties='Excel 12.0 Xml;HDR=YES';Data source=**

A table with month names serves as an example, the path of which is entered in the "Database" line:

**C:\Users\%username%\AppData\Local\Diagraph\Control\Formats\Data.xlsx**

When activated, the "**Low Buffer**" checkbox causes a real serialization in which several data packets are sent at once. For this purpose, the Esc sequences of the init sequence are also sent to the printer when the serialization is started. If the checkbox is not activated, the next data line is sent to the printer after each printout.

If the "**Fixed length**" parameter is set, the data can be centered in the printout. The read database value is padded to the specified length at the back and front with blanks.

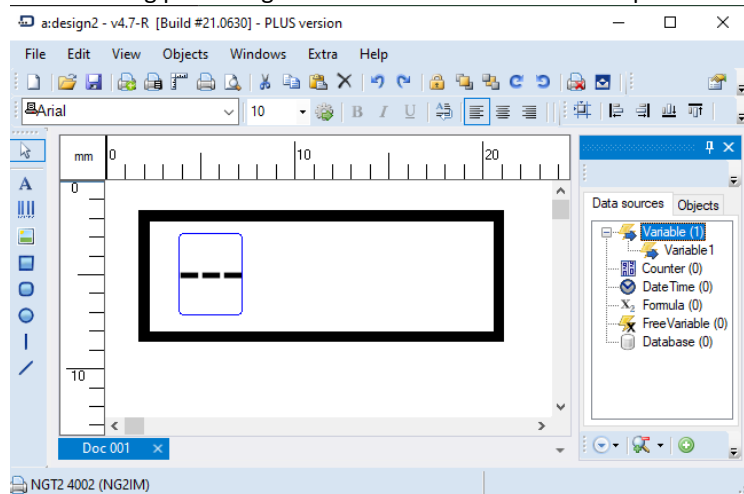
When activated, the "**Repeat**" checkbox causes a repetition after all database lines have been processed.

When activated, the "**SQLUpdate**" checkbox causes an update to the Excel sheet and ticks off the lines that have already been printed so that they are no longer taken into account when the program is restarted.

## 4. Sample application with one variable and one update:

The following example shows the setting for an Excel table with update:

The following print image is loaded on slot 30 of the NGT printer:



The Excel file looks like this:

Automatisches Speichern ☒ data.xlsx - Excel

Datei Start Einfügen Seitenlayout Formeln Daten Üb

Einfügen

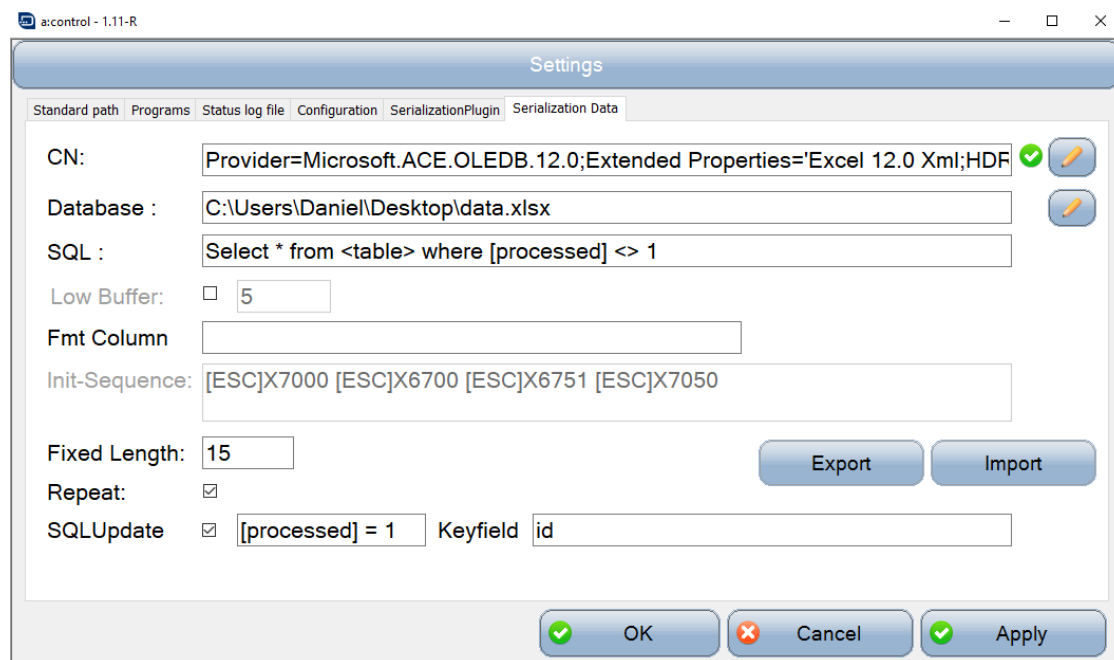
Schriftart Ausrichtung

B11

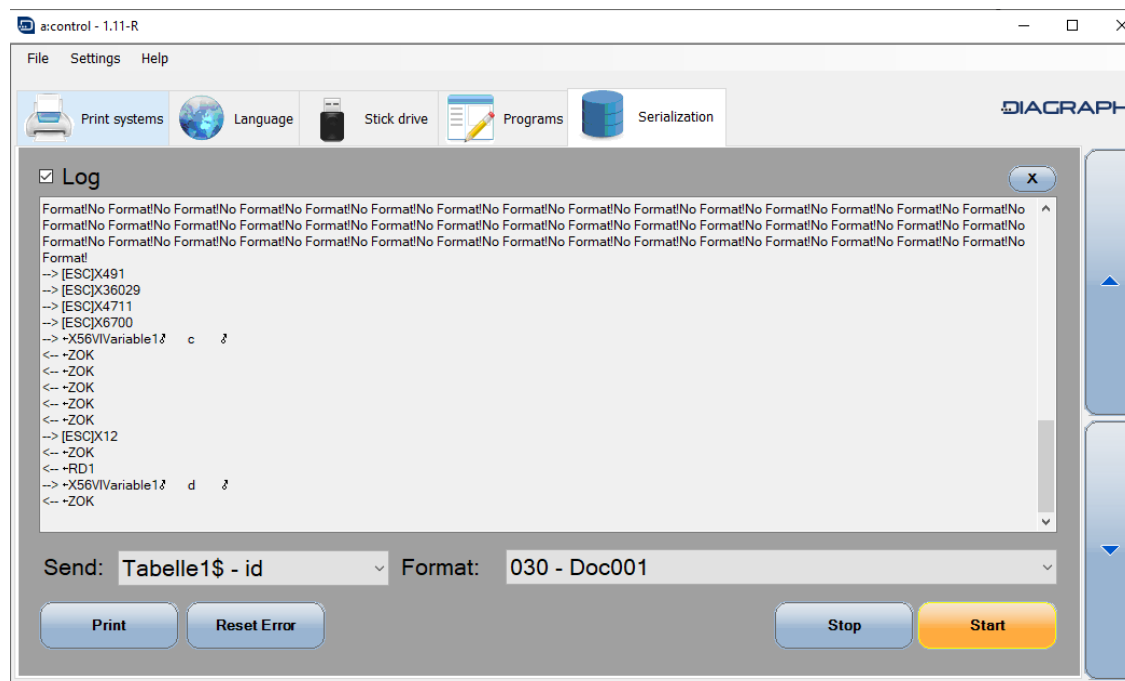
|    | A  | B         | C         | D | E | F | G |
|----|----|-----------|-----------|---|---|---|---|
| 1  | id | processed | Variable1 |   |   |   |   |
| 2  | 1  | 1         | a         |   |   |   |   |
| 3  | 2  | 1         | b         |   |   |   |   |
| 4  | 3  | 0         | c         |   |   |   |   |
| 5  | 4  | 0         | d         |   |   |   |   |
| 6  | 5  | 0         | e         |   |   |   |   |
| 7  | 6  | 0         | f         |   |   |   |   |
| 8  | 7  | 0         | g         |   |   |   |   |
| 9  | 8  | 0         | h         |   |   |   |   |
| 10 | 9  | 0         | i         |   |   |   |   |
| 11 |    |           |           |   |   |   |   |
| 12 |    |           |           |   |   |   |   |
| 13 |    |           |           |   |   |   |   |
| 14 |    |           |           |   |   |   |   |
| 15 |    |           |           |   |   |   |   |

Tabelle1

The plugin settings are as follows:



The start of printing can be started on the "Serialization" tab after the format has been selected. The log file can also be displayed here:

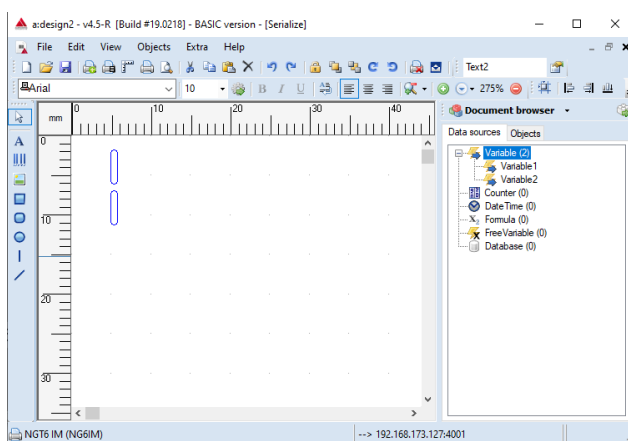


## 5. Example application with multiple lines:

A register is to be printed in which the last line appears in multiple lines:



Create a print image with 2 variables and save it under the name "Serialize"



The Excel database "Data.xlsx" is structured as follows:

|    | A         | B         |
|----|-----------|-----------|
| 1  | Variable1 | Variable2 |
| 2  | A         |           |
| 3  | B         |           |
| 4  | C         |           |
| 5  | D         |           |
| 6  | E         |           |
| 7  | F         |           |
| 8  | G         |           |
| 9  | HI        |           |
| 10 | JK        |           |
| 11 | L         |           |
| 12 | M         |           |
| 13 | N         |           |
| 14 | O         |           |
| 15 | PQ        |           |
| 16 | R         |           |
| 17 | S         |           |
| 18 | T         |           |
| 19 | UV        |           |
| 20 | W         |           |
| 21 | X         | YZ        |