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Service Manual

TransUC3 Installation Guide

Folder 2

Register 8

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1 General

1.1 Description

TransUC3 is a data interface for communication with UC3 devices. The program can be used as a DLL or as an EXE with start parameters.

Starting with version 2.00 it's additional possible to exchange data with ETICA devices. In the documentation for the XML Systeminterface (ME 22007556) is described which TransUC3 commands can be used with the UC3-devices and/or with the ETICA-devices.

Using TransUC3, data can be transmitted in XML format (UC3 XML system), in TransXXX ASCII format or in CSV format (not yet realized). The TransUC3 installation therefore includes additional filters (DLL files) that can be integrated with TransUC3 using an INI file.

1.2 Prerequisites

1.2.1 Operating System

The TransUC3 software will run on the following operating systems:

- ⇒ Windows2000
- ⇒ WinXP

1.2.2 Hardware

In order for data communication to take place using TransUC3, a network adapter must have the TCP/IP protocol integrated and installed.

1.2.3 Software

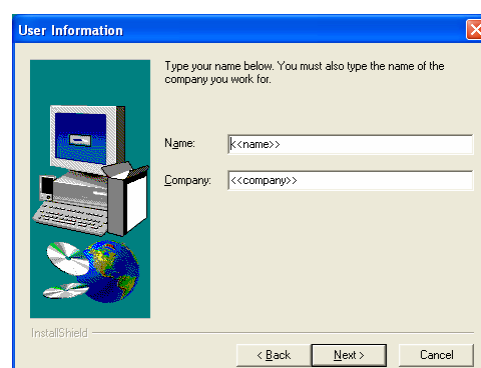
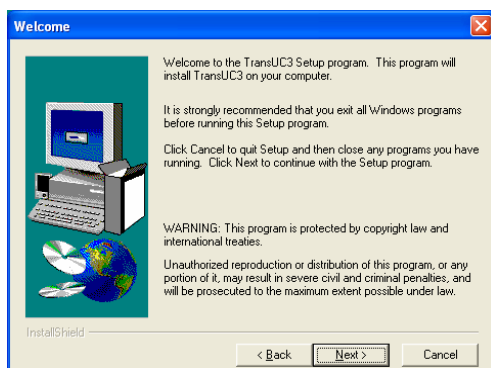
Trans UC3 ⇒ ME – 2201 0451

2 Installation

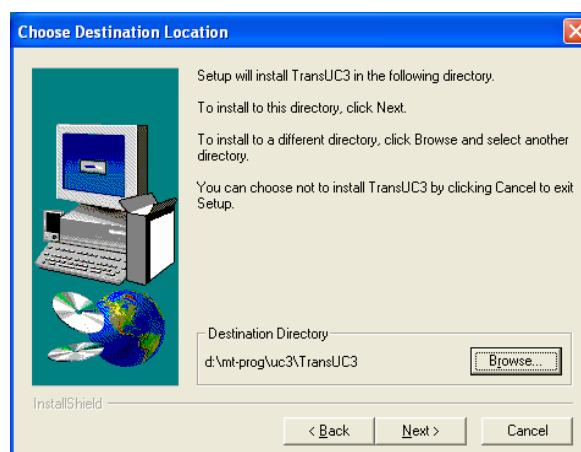
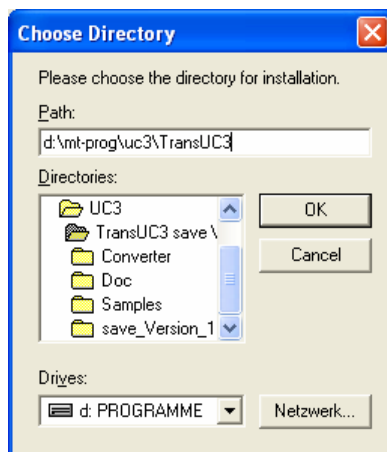
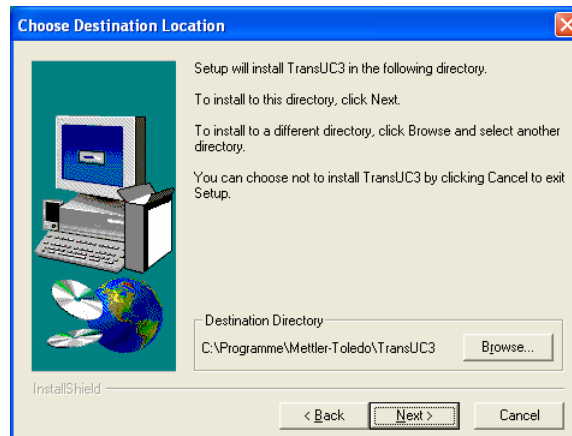
Run "Setup.exe"



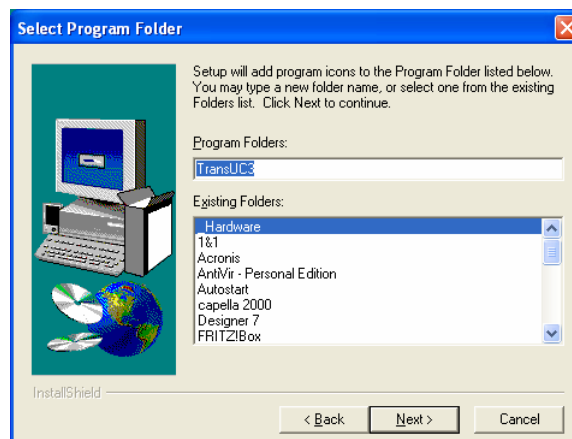
Click on <<Next>> to continue the installation or click on <<Cancel>> to stop.



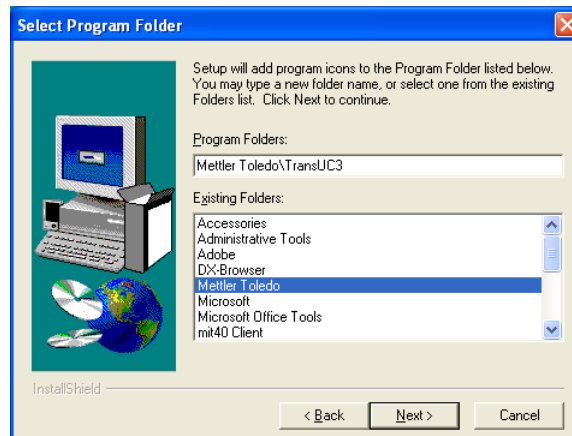
Enter your <<Name>> and <<Company>> and click on <<Next>> to continue



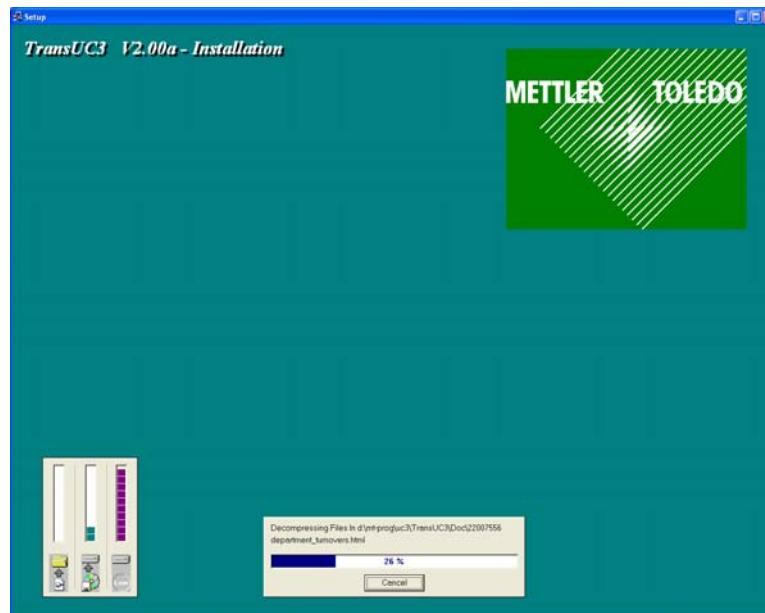
This window allows the suggested destination directory to be selected or changed using the <<Browse>> button. To continue with the installation click on <<Next>>.

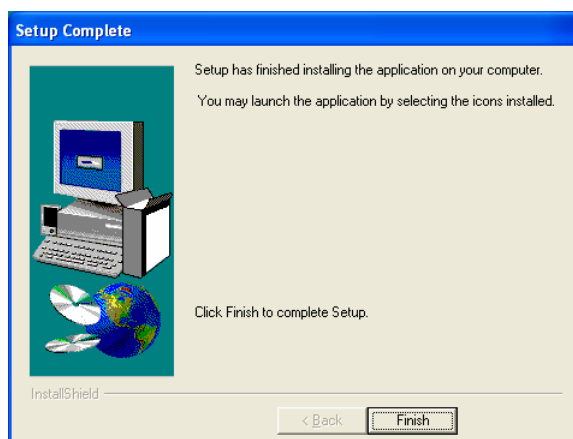


The program folder for the start menu can be selected here. For example, if "Mettler Toledo\TransUC3" is entered, the "TransUC3" folder will be created as a subfolder in the "Mettler Toledo" group of programs.



Finally a summary of the installation settings is shown. To change these settings simply click on the <<Back>> button to display previous windows. To start the installation click on <<Next>>.



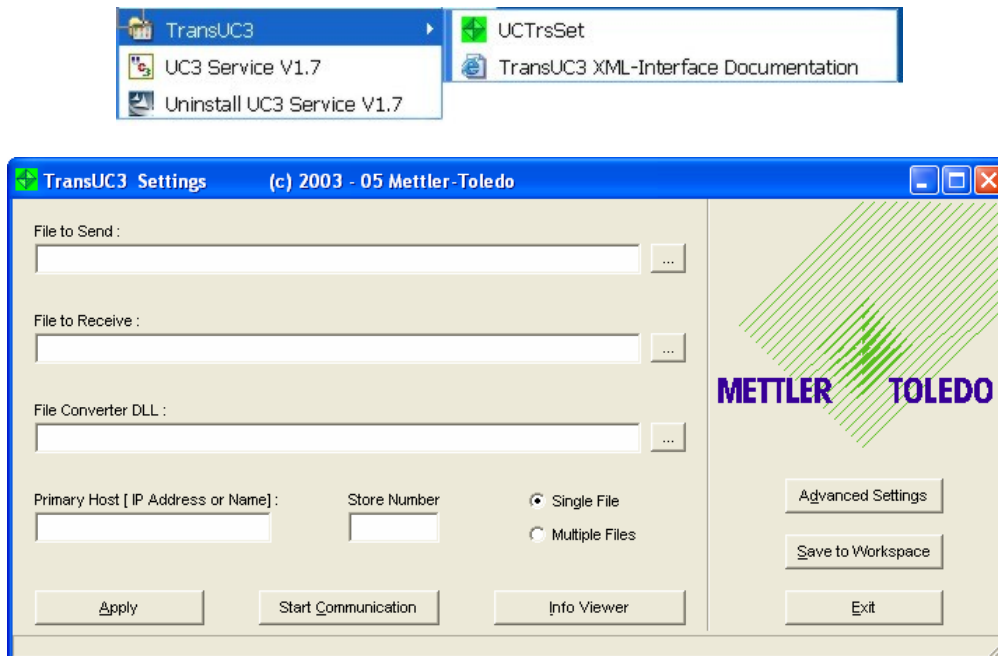


When the above window is shown, simply click on the <<Finish>> button to complete the installation.

3 Configuring and Testing Data Transmission with TransUC3

After the installation, the UCTrsSet program can be run from the selected start menu folder. The following dialog then appears, which facilitates the configuration of TransUC3 and the testing of data transmission.

3.1 Running the UCTrsSet Program

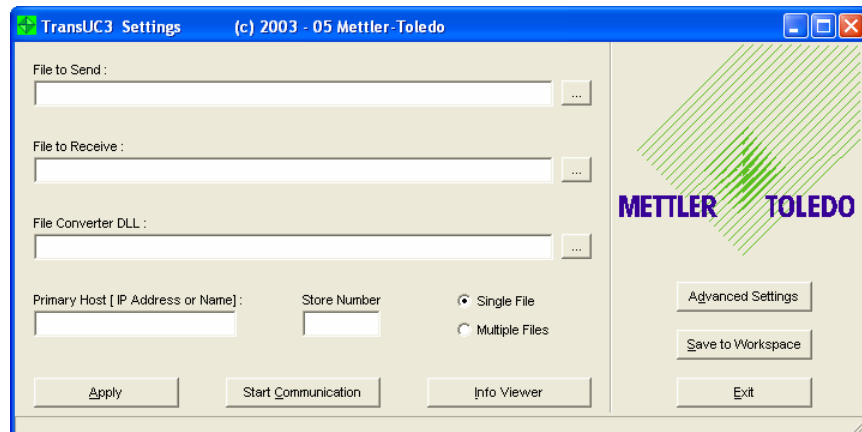


The following can be selected via the input fields and buttons:

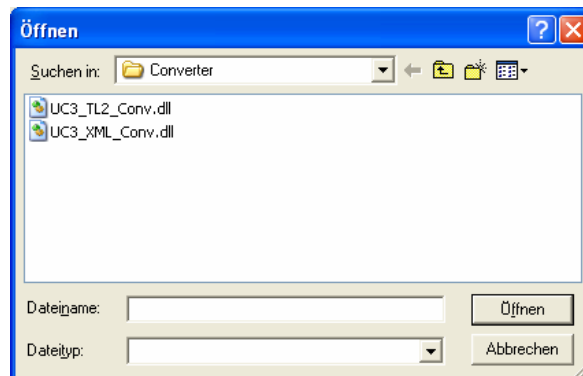
- | | |
|---------------------|--|
| File to Send | ⇒ The file with command strings that is to be transmitted using TransUC3 |
| File to Receive | ⇒ The file containing the response strings of UC3 devices |
| File Converter DLL | ⇒ The filter used by TransUC3 to convert the contents of both the above files to the UC3 internal XML format (XMLTLV) |
| Primary Host | ⇒ The IP address or computer name (if the network includes a DNS server for naming) of a UC3 device in the target network
(the IP addresses of all devices in the network are automatically stored in the file UCTrans.ini after the first successful transmission) |
| Store Number | ⇒ alternative to the Primary Host it's also possible to define the "Store Number". In this case TransUC3 searches with a Broadcast for a Network-ID for this Store Number in the local IP-Subnet. |
| Apply | ⇒ Apply changes (always click on this button if changes have been made before clicking on "Start Communication") |
| Start Communication | ⇒ Begin transmission using the set parameters |
| Advanced Settings | ⇒ Set further parameters (Timeout, Tracing) |
| Save to Workspace | ⇒ Save the current settings in an INI file (create a copy of the current UCTrans.ini file) |
| Exit | ⇒ Quit the program |

3.2 TransUC3 Configuration

3.2.1 Choosing a Converter



The filter (file converter DLL) should be selected when the program is run for the first time. The filter can be specified by clicking on the <<...>> button to the right of the line, which causes the following window to appear:



The TransUC3 installation includes a “Converter” subdirectory that contains data conversion DLLs. Depending on the converter selected, TransUC3 expects or provides a file in XML format as defined in the UC3 XML interface or in ASCII format as defined in the TransXXX documentation (a converter for CSV format will be available in future).

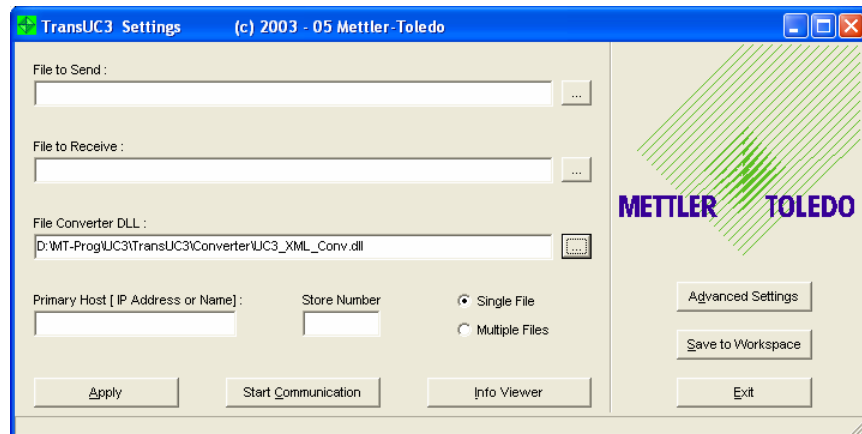
UC3_XML_Conv.dll ⇒ UC3-XML Converter

UC3_TL2_Conv.dll ⇒ TransXXX Converter

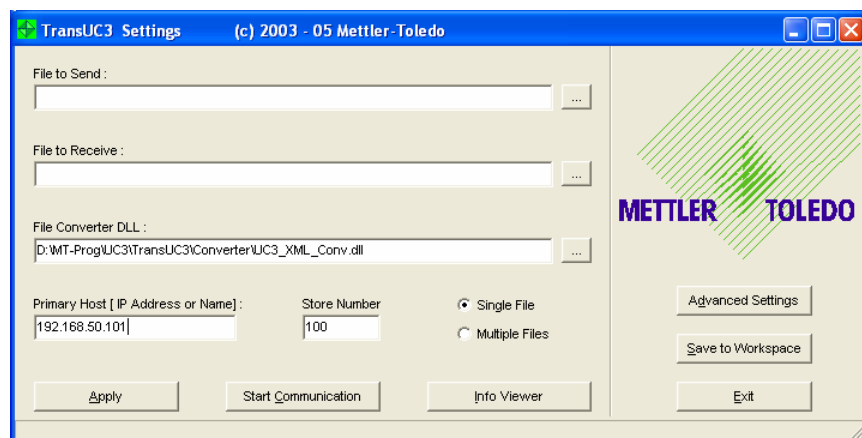
The filter converts the contents of these files to the UC3 internal XML format (XMLTLV) and vice versa.

File to Send ⇒ is converted to the file “uc3_in.xml”

File to Receive ⇒ is converted to the file “uc3_in_out.xml”



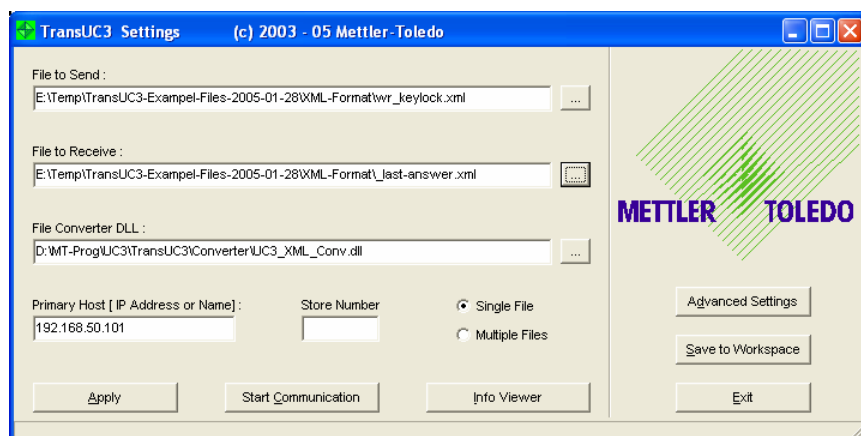
3.2.2 Specifying the Primary Host Address



The IP address or computer name (set a DNS for naming in advance) of a device in a UC3 network must be specified. It is important that the TransUC3 is able to communicate with this IP address (send a ping).

During the first transmission of data, the TransUC3 computer obtains the network map of the UC3 network from this device and enters the IP addresses of all devices in the "UCTrans.ini" file. If the specified device does not respond to further transmissions, the TransUC3 attempts to connect to the other IP addresses in order to read the current network map.

3.2.3 Specifying the File to Send and File to Receive



The file to be used with TransUC3 transmission commands can be selected by clicking on the <<...>> button next to the respective line. The file name and saving location of the response file (File to Receive) can be selected as required. Note: to allow XML files to be opened automatically with the correct program in the “Info Viewer”, the file extensions should not be changed.

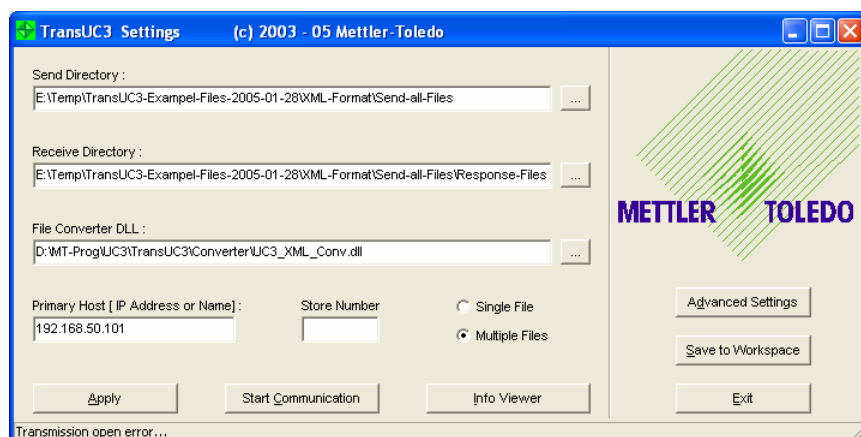
In order to avoid confusion, it is recommended to use the same file names with an additional RECEIVE before the “.XML” extension or in the case of the response file the name “_Last-Answer.xml”.

The contents of the selected “File to Send” must correspond with the definition of the selected filter.

Before clicking on the <<Start Communication>> button to begin transmission, first click on the <<Apply> button to use the current settings.

3.2.4 Transmitting all Files from One Directory – “Send Directory”

If “Multiple Files” is selected in the TransUC3 settings dialog, then all of the files in a directory are transmitted and the response files are stored in a specified directory.

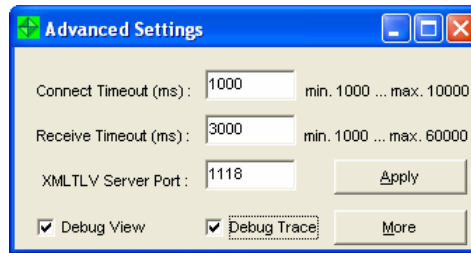


The respective directories are specified by clicking on the <<...>> button on each line.

The contents of all files in the “Send Directory” must correspond with the definition of the selected filter.

Before clicking on the <<Start Communication>> button to begin transmission, first click on the <<Apply> button to use the current settings.

3.2.5 Defining Advanced Settings



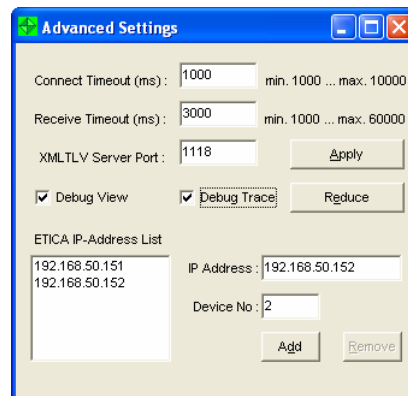
Click on the <<Advanced Settings>> button to open this menu. The timeout values define the waiting period for Connect and Receive in the event of TransUC3 not connecting or receiving a response from a device.

The current network map is read before each data transmission. In larger networks (over 10 devices), this can take several seconds. Consequently, TransUC3 automatically increases the timeout values when trying to establish a connection until the network map has been read. The set values then become effective.

The communication between the TransUC3-PC and the UC3-devices uses per default the Port 1118. If this value is changed this must be done also with the UC3-devices in to the same value

If the <<Debug View>> option is selected, a status window appears during data transmission to UC3 devices. This option should be used when data transmission is to be tested.

With the option <<Debug Trace>> selected, data transmission is logged in a file which can be opened by clicking on the <<Info Viewer / Debug Trace>> button.



By clicking the button "More" it's possible to list the IP-addresses of ETICA-devices. After this every TransUC3 communication is sent to the UC3-devices and additional to the listed ETICA-devices.

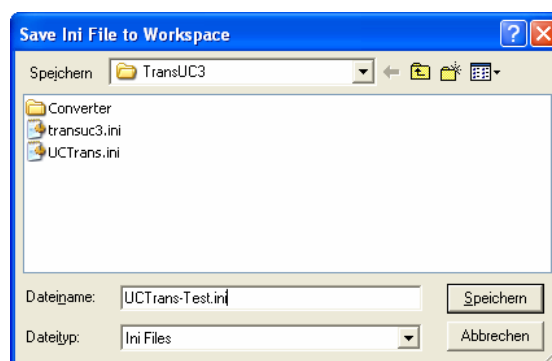
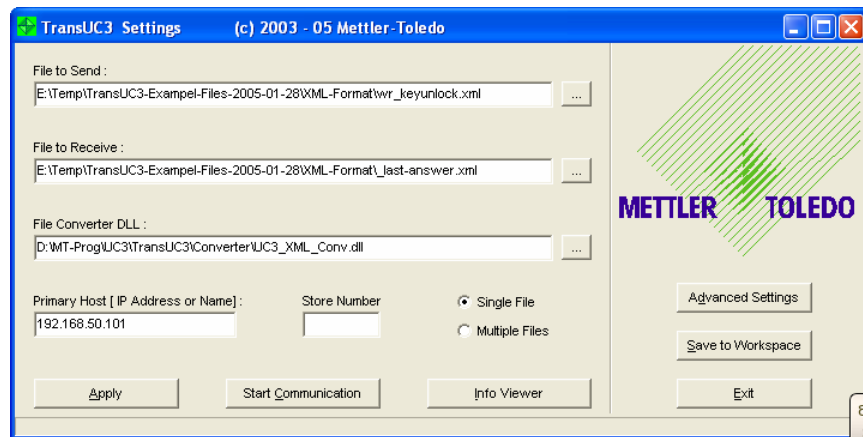
This function is available with TransUC3 version 2.00. It can be used only if the UC3 and the ETICA devices have also an application which is compatible to this TransUC3 version.

The device numbers for the ETICA are only virtual numbers for TransUC3 to create logfile entries. They must be different to the device numbers of the UC3 devices. Otherwise it's not possible to identify in the log-files and in the Debug-Trace which device created a log entry.

For settings to take effect it is first necessary to click on the <<Apply>> button.

Afterwards the Box must be closed with the Symbol

3.2.6 Saving Settings by Clicking on <<Save to Workspace>>



All settings made can be saved in a file (in this case UCTrans-Test.ini) by clicking on the <<Save to Workspace>> button. The directory and filename can be chosen as required. If TransUC3 is subsequently started from a command line, this file name can be specified as a parameter (e.g. with parameter -nUCTrans-Test.ini).

The file can be opened with an editor and can then be modified if necessary.



3.3 Registering TransUC3 – cancelled with version 2.00

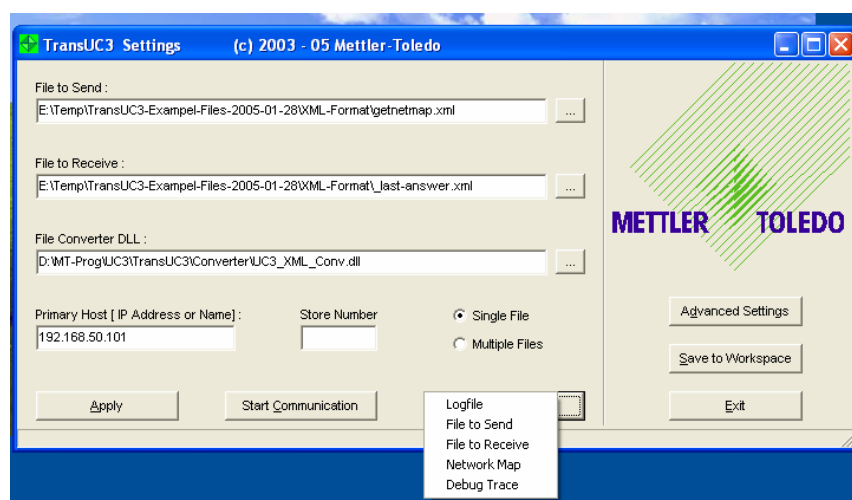
Because of a new agreement between Mettler-Toledo (Albstadt) GmbH and the Mettler-Toledo Market-Organisations the Registration is was cancelled with version 2.00. The program can be used without any limitation.

3.4 Testing Communication With TransUC3

With TransUC3 fully configured in accordance with section 3.2, click on <<Start Communication>> to transmit the “File to Send” using the selected “File Converter DLL” filter. The response of each scale will be stored in the “File to Receive.”

With the Debug View option selected, the following window appears during data transmission, in which the communication details are logged.

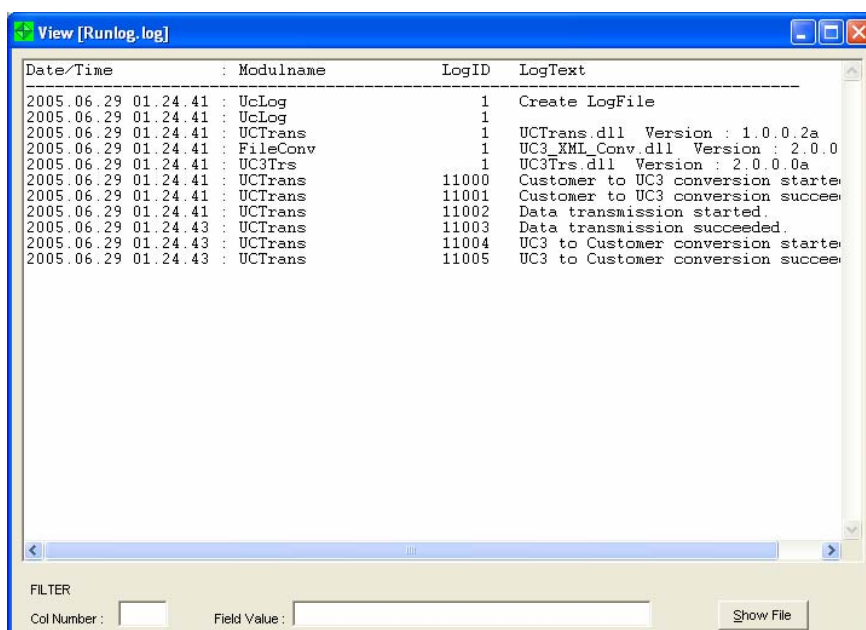
3.5 Evaluating TransUC3 Communication



Clicking on the <<Info Viewer>> button allows the following information to be displayed: Logfile, File to Send, File to receive, Network Map and Debug Trace

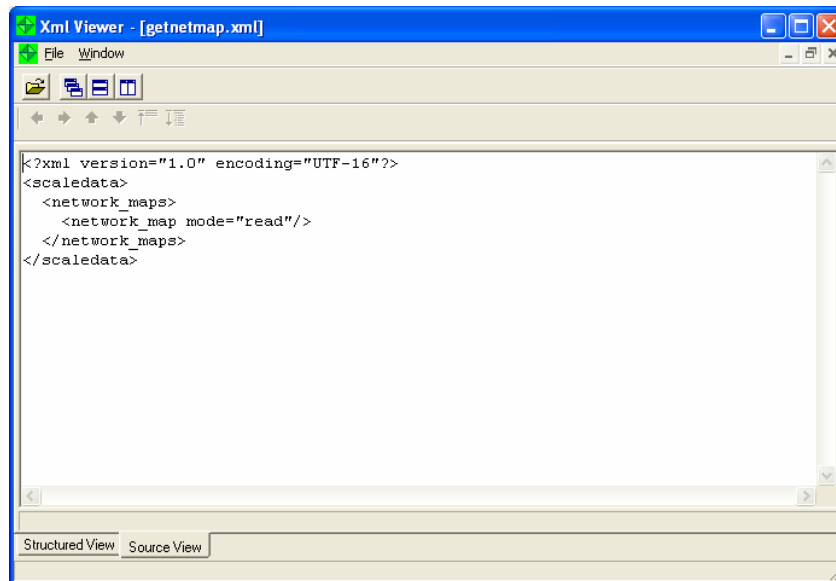
Logfile:

Displays the contents of the “Runlog.log” file in the TransUC3 directory. This file is automatically created if it does not exist. If the file already exists it is simply updated. The size of the file is limited to 2 MB.

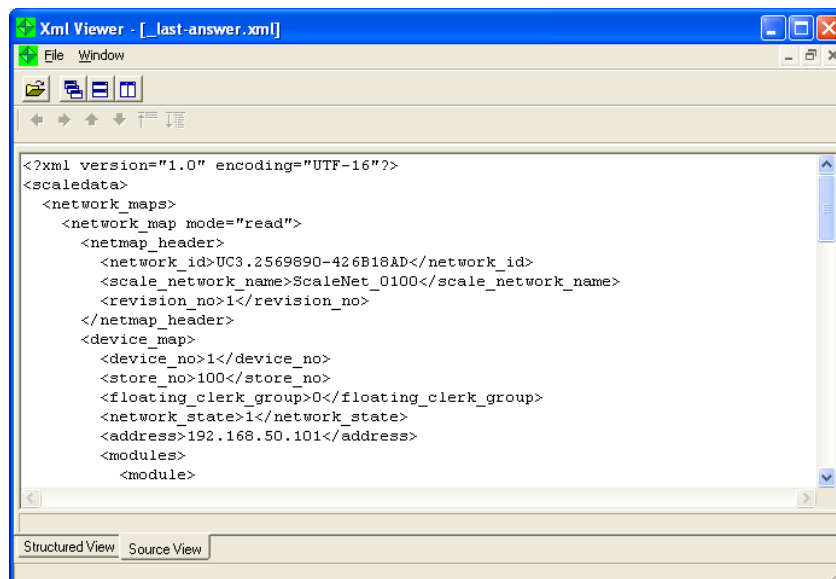


File to Send:

Opens the file to be transmitted using TransUC3. If the file is in XML format, it is opened using the XML Viewer (in this case with Source View). If the file is in TransXXX format, it is opened using the ASCII editor.

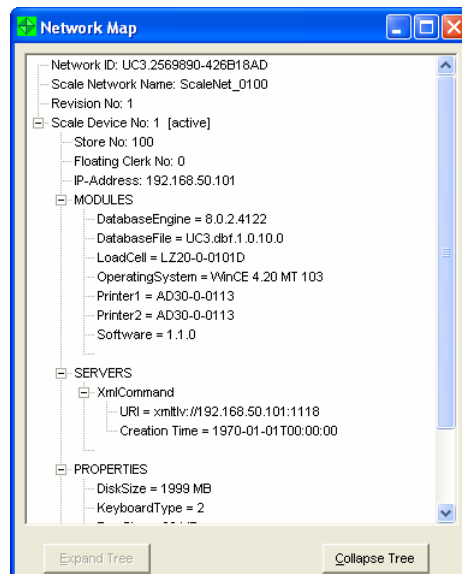
**File to Receive:**

Opens the file transmitted by UC3 devices as a response. If the file is in XML format, it is opened using the XML Viewer (in this case with Source View). If the file is not opened automatically, it can be opened using the <<Open>> button. Each XML file can also be opened directly using a browser. If the file is in TransXXX format, it is opened using the ASCII editor.

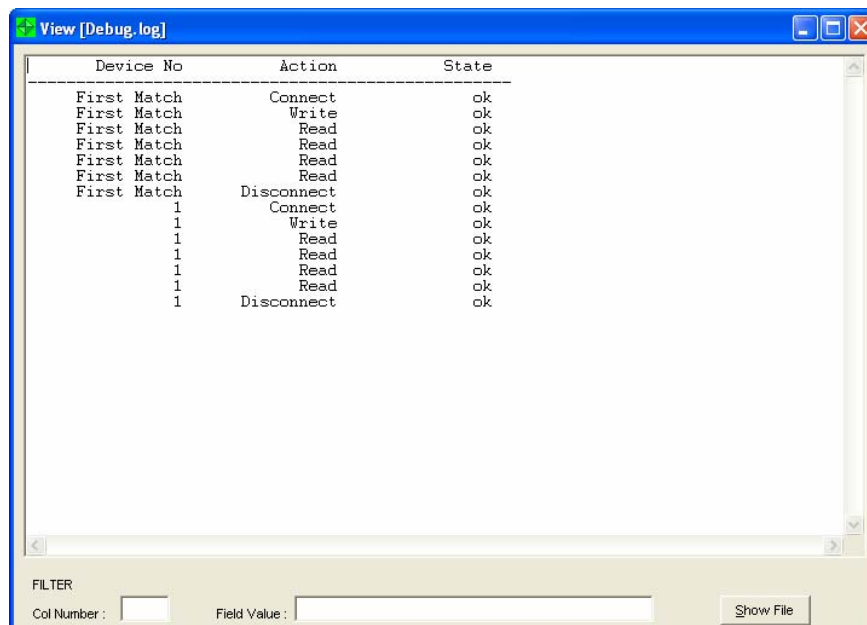


Network Map:

When data transmission has taken place using TransUC3, the entire network map from the specified primary host device can be read and edited here.

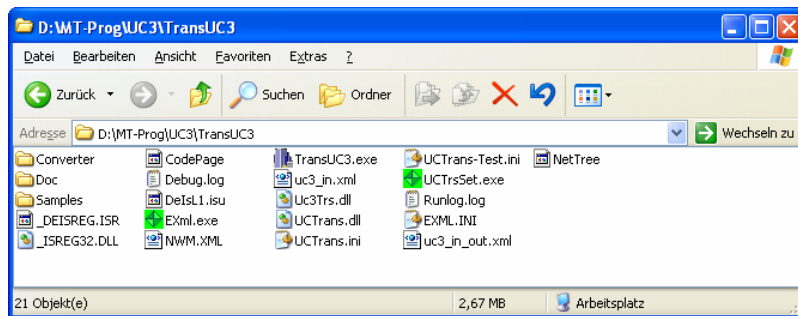
**Debug Trace:**

If the "Debug Trace" option is selected in Advanced Settings it is possible to check which data has been transmitted to which device here.

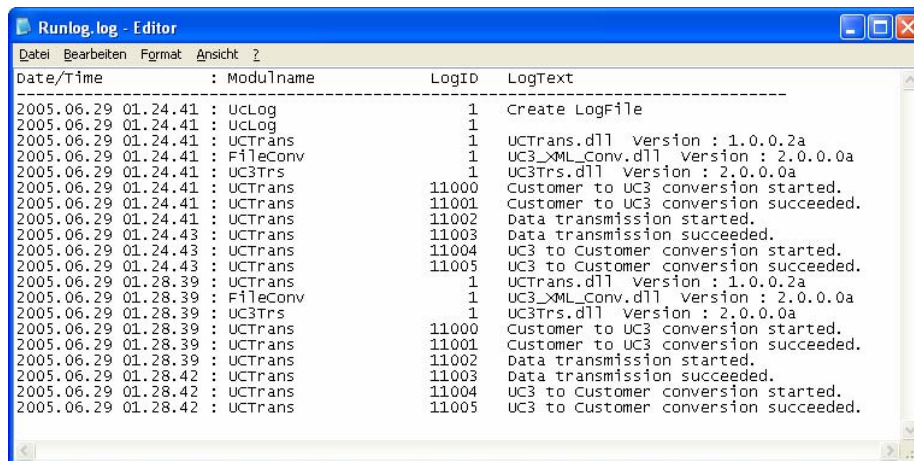


4 Checking the TransUC3 Version

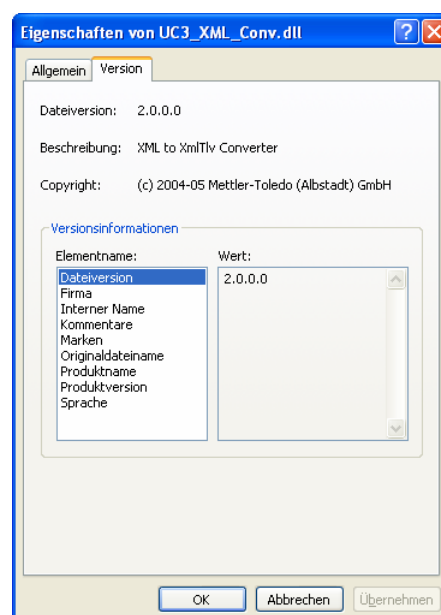
The TransUC3 installation directory contains the following files:



The versions of individual files are stored in the TransUC3 log file "Runlog.log". TransUC3 updates these entries before each data transmission (i.e. the current version details are listed at the end of the file).



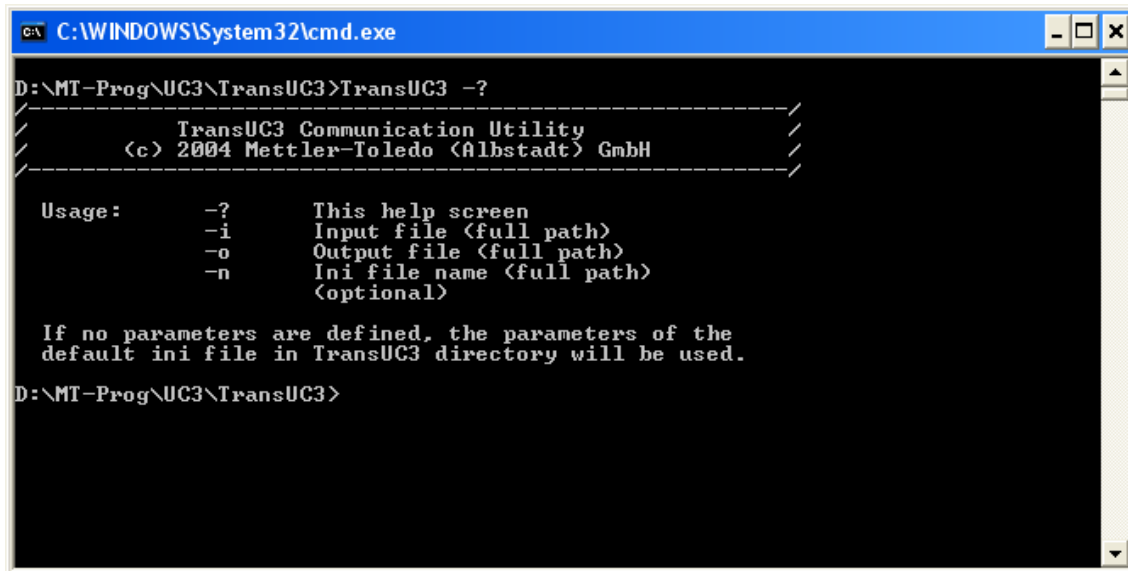
The version of each file can also be viewed from the Explorer by right clicking on a file and selecting Properties. The following information is then displayed with the "Version" tab selected.



5 Starting TransUC3 from a Command Line – TransUC3.EXE

If a command console is opened, the EXE version of TransUC3 can be started from the TransUC3 directory.

Starting "TransUC3.exe" from a command console with the parameters "-?" displays all the possible parameters that can be used with the program.



```
C:\WINDOWS\System32\cmd.exe

D:\MT-Prog\UC3\TransUC3>TransUC3 -?

-----
TransUC3 Communication Utility
(c) 2004 Mettler-Toledo (Albstadt) GmbH
-----

Usage:      -?      This help screen
            -i      Input file <full path>
            -o      Output file <full path>
            -n      Ini file name <full path>
                   <optional>

If no parameters are defined, the parameters of the
default ini file in TransUC3 directory will be used.

D:\MT-Prog\UC3\TransUC3>
```

The parameters are:

- ? ⇒ Display the above screen
 - i ⇒ The Input File (File to Send) / optionally with path
 - o ⇒ The Output File (File to Receive) / optionally with path
 - n ⇒ The INI file with workspace data/ optionally with path
-
- If TransUC3.exe is started with no parameter specified, the program uses all of the settings in the file UCTrans.ini.
 - For example, if an INI file is specified using the parameter -n (such as UCTrans-Test.ini), then all of the parameters used including the Input and Output file are taken from this INI.
 - If the -i parameter is used to specify only an input file, then all other parameters are taken from the default file UCTrans.ini (including the output file) and the specified input file

6 Revision History

Edition: June 2004
Current TransUC3 version: 1.0.0.0

Section	Modification:	Remarks
All	First version of this document	

Edition: Juli 2005
Current TransUC3 version: 2.00

Abschnitt	Änderung	Bemerkung
Frontpage	Changed the date to 0705 and July 2005	
1.1 par. 2	Data exchange with ETICA	New with TransUC3 version 2.00
1.1 par. 3	Changed the advice for the CSV-Format	Not realized yet
2	PrintScreens renewed and minimized	
3.1	Renewed the PrintScreen for the Start-Menue and for the TransUC3 Settings	New field for „Store Number“ change entry (c) 2003-05 ...
3.2	Added the Text for „Store Number“	
3.2.2	Renewed PrintScreen for TransUC3 Settings	The CSV-Filter is not realized yet
3.2.3	Deleted the advice for CSV-File	
3.2.4	Renewed PrintScreen for TransUC3 Settings	
3.2.5	Renewed PrintScreen for TransUC3 Settings Added PrintScreen and Text for the Button „More“.	The fields for „XMLTLV Server Port“ and the button „More“ are new.
3.2.6	Renewed PrintScreen TransUC3 Settings Renewed PrintScreen UCTrans-Test.ini	New values for the ETICA
3.3	Changed because the registration was cancelled.	Applies from version 2.00
3.5	Renewed PrintScreens	
4	Renewed PrintScreens	