

MTLink



Application software





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Use the Bookmarks on the left side of the window to select or search for a topic. You can also select one of the following **Quick links** to start learning about MTLink.

- Getting started
- Online support information
- End-User Licence Agreement

2.1 What is MTLink?

MTLink is a PC software program for Chauvin Arnoux machine testers. Functionality of the PC software program depends on a licence purchased:

BASIC licence

- Download / upload data from / to the instrument (instrument data, appliance data, test results)
- Store data to a local database
- Edit stored data
- Print results
- Automatically fill reports (original certificates) with results (Printing of reports is disabled)

PRO licence

- All functionality of BASIC licence
- Print reports
- Export / import data to / from other databases

2.1.1 User Interface

	DEMO			
Home Structure Database	•0			
Document Communic	ation Reports	Tools	Setting	
	6		A	
			137	
ome New Open Save Get Data Send Data	Get instrument info Create Manage	e Template Editor Print Results	Work scope	
ome × DEMO.padfx ×			Parameters	
ee View	ф.	Show all 🔻	DEMO OBJECT 1 R DEMO main DB	1 (
	Euroction Path	·	System	•
			Earthing system type TN-S	•
ame	Root/DEMO OBJEtroo	de main/Z loop Pass ≡	Nominal voltage (U) 230 V	• •
≥ . ₀ Root	Results		Nominal voltage (Uo) 230 V	•
DEMO OBJECT 1	lpsc	349 A	▷ Voltage type a.c.; 3-phase, 4	
notes can be added to each object in the tree	Z	0,19 Ω	Nominal frequency 50 Hz	-
▶ 🖾 🖕 o DEMO main DB1	SubResults		Means of earthing Earth electrode	•
- 🖾 🖕 DB1	Ulpe	251 V	Prospective fault cur	
Circuit1	XL	0,06 Ω	External earth fault k	
•	R	0,46 Ω	Primary fuse	⊾
Earth	Limits		Primary fuse standal BS; BS 88-2	•
Earth	Zlim (Z)	2,934 Ω	Primary fuse rated c 6 A	•
	Parameters		Primary fuse disc.tim 4 s	•
	DateTime	25.7.2014 9:48	Main switch	⊾
	Fuse Type	BS 88-2	Main switch or circu	
	Fuse I	10 A	Main switch / breake 1	-
	Fuse t	0,4 s	Main switch voltage 500 V	•
	Root/DEMO OBJEtroo	de main/Zs rcd Pass	Main switch rated ct 10 A	•
	Root/DEMO OBJctrod	le main/Earth Pass	Main switch - RCD o 30 mA	-
	Root/DEMO OBJEain.	/Earth 1 clamp Pass	Main switch - rated t	
	Root/DEMO OBJEain	/Earth 2 clamp Pass	Dates	▶
	Root/DEMO OBJcond	luctor 1/R low Pass	Erection date (of blor 10.8.2014	•
	Root/DEMO OBJcond	luctor 1/R low Nothing	Modification date 1 (# 27.8.2014	-
	Root/DEMO OBJEr s	3	Modification date 2 (c	-
	Root/DEMO OBJE s		General	⊾
	ROOL/DEMO OBJET s		Name (designation) (DEMO main DB1	

Figure 2.1: Main Window View

User interface main features:

- The interface has been organized to allow quick selection of data using a Windows Explorer-like tree view
- Properties of selected data are instantly displayed in multiple windows
- By dragging, docking and resizing the window tabs, the user can customize the environment in numerous ways

2.1.2 Connectivity

- Supports multiple instruments
- USB and RS-232 communication interfaces and Bluetooth communication supported



Note

Please note that some parts of program can be changed without notice in new software versions, and therefore might differ from the information in this manual. If you encounter such differences, we will gladly accept your e-mail with your suggestions and include or change the necessary information in our next hotfix or update.

3.1 Legal/Contact Information

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CANCELLATION: The present contract remains in force until its cancellation. It will be cancelled without notice by Chauvin Arnoux if you do not comply with the terms of the present contract. In the event of cancellation, you must immediately return to Chauvin Arnoux all the copies of the software in your possession, along with the document.

If you have any question concerning this Agreement, please contact Chauvin Arnoux.

4.1 System Requirements

Before installation, you should check that your system meets the following requirements:

Supported Operating Systems:

- Windows 7, 32-bit & 64-bit
- Windows 8, and 8.1 32-bit & 64-bit
- Windows 10, 32-bit & 64-bit

Installed System Memory (RAM):

- Windows 7: min. 1 GB (4 GB recommended)
- Windows 8 and 8.1: min. 1 GB (4 GB recommended)
- Windows 10, 1 GB (4 GB recommended)

Hard Disk Space:

- At least 100 MB of free space for the installation files and documentation
- Additional 280 MB (x86) or 610 MB (x64) of free space if Microsoft.NET Framework (4.0 or higher) is not previously installed
- Additional disk space (20 GB recommended) is needed for downloading and saving MTLink data files (A single MTLink data file can be up to 8 GB). Additional disk space (20 GB recommended) is needed for downloading and saving MTLink data

4.2 Downloading the software

You can download the latest version from our web site: <u>www.chauvin-arnoux.com</u> Go to the **Support** tab, then **Download our software**. Then search on MTLink. Download the .zip file containing Setup.exe.

4.3 Installing the software

To install the software, run the Setup.exe file. The installation wizard will guide you through the language and instrument selection and installation of MTLink.

4.4 Software updates

For automatic detection of the latest MTLink update, internet connection is needed. If a new version of software is detected, MTLink will display a message with a link in the bottom right corner of the screen during every start-up. By clicking on it a new version of MTLink will be installed.



Figure 4.1: Update message and a link

Additional access to get new software update is from the About screen. For details regarding the new software version (new features, bugs fixed,...) see Release notes.



Figure 4.2: About screen

5.1 Quick guides and tutorials

5.1.1 Introductory Guides

Before starting to use MTLink, here is some information about the basic features. The following sections will explain the way data is organized in MTLink, show you how to use advanced window management capabilities to arrange your workspace efficiently.

- First contact with MTLink user interface
- Measurements
- Communication with Instruments
- Creating Reports
- Troubleshooting

6.1 Introduction

6.1.1 First contact with MTLink user interface

MTLink utilizes a multiple document interface with docking support and auto hide capabilities. Getting familiar with the way windows and nodes are handled in MTLink may simplify your everyday tasks significantly.

The default MTLink workspace is organized as shown in the picture. Just below the menu strip and a toolbar, you can find the Document tab-strip (①), which shows the names of all open databases. The highlighted tab ("DEMO.padfx" in the sample below) shows the name of the currently active file. Within this tabbed window, you can find the **Tree View** window (②) (shown on the left side by default), which contains the hierarchical data structure of your document. Tree View window is docked and always shown by default, but can be undocked or hidden just as any other window.

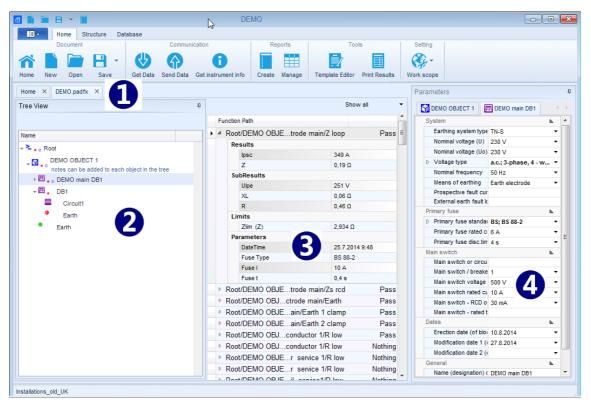


Figure 6.1: Main workspace with an open sample database

The center of the window is by default the **Result view** area (Θ), which is used to display individual records. In one selected item in Tree View could be one or more records. When an item node is clicked in the Tree View window, the center area of the window will display a new record and on the right side of menu the properties of the clicked items appear. Click on + expands each individual record and shows the results of the record.

On the right side of the workspace is the **Parameters** window (④), by default, docked to the right side. This window is bound to the selected node in the Tree View, and shows a list of parameters defined for that node. Using this window, you can edit those parameters. This window can also be undocked and hidden.

6.1.2 Window management in MTLink

MTLink environment provides various tools and options to help you position and move between document and tool windows. MTLink uses a Multiple Document Interface (MDI) to handle multiple documents, meaning that multiple documents can be opened and placed inside the main, parent container.

6.1.2.1 Window types

There are two basic Window types in MTLink, Tool windows and Content windows.

Tool Windows

Tool windows are listed as Tabs and can be shown or hidden as appropriate. Closing a tool window actually only hides it to increase your working area for other windows, but it can be easily reopened at any time. For example, Tree View and Parameters window are tool windows.

Tool windows can be configured to:

- Auto-hide when you move your mouse away
- Dock against the edges of their parent windows

Auto Hide

Tool windows support a feature called **Auto Hide**. Auto Hide allows you to enlarge your Result view area by minimizing tool windows along the edges of the application environment when not in use.

The next figure shows the appearance of the **Tree view tool** window when it is visible ($\mathbf{0}$) and hidden using **Auto Hide** ($\mathbf{0}$).

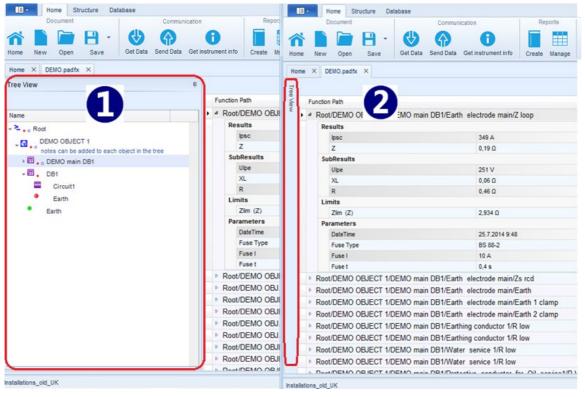


Figure 6.2: Auto Hide

The left picture shows the docked Tree view tool window. When docked, a tool window is fixed inside the container (parent) window.

By clicking on the pin button \P , user can turn on the Auto Hide feature. When an auto-hidden window loses focus, it automatically slides back to its tab on the edge of the parent window. While a window is auto-hidden, its name and icon are visible on a tab at the edge of the parent window. To display an auto-hidden window, move your cursor over the tab. The window slide back into view and is ready for use.

To turn off the **Auto Hide** feature, click on the pin button **4** again while the window is active.



Tool windows in Auto Hide temporarily slide into view when the window has focus. To hide

the window again, select an item outside of the focused tool window. Once the window loses focus, it will slide back out of view.

Content Windows

Content windows are containers for actual data. In the MTLink software the Result view area is a content window. Data is displayed in the middle of the screen and cannot be moved. Content is derived from the selected entry in tree view. Content windows include filters for filtering content data.

There are two options for setting filters:

• Show All (**0**)

Tip

• Show Results and Sub-results (2)

Root/DEMO OBJECT 1/DE				
	EIVIO main DB1/2 loop)		Pass
Results				
lpsc		347 A		
Z		1,58 Ω		Pass
SubResults				
Ulpe		231 V		
XL		0,09 Ω		
R		0,25 Ω		
Limits				
Zlim (Z)		2,934 Ω		
Parameters				
DateTime		25.7.2014 11:45		
Fuse Type		BS 88-2		
Fuse I		10 A		
Fuse t		0,4 s		
			Show	Results and Subresults
ction Path			allow	
Root/DEMO OBJECT 1/DE	MO main DB1/7 loop)	(2 Pass
Results				
lpsc	347 A			
Z	1,58 Ω		Pass	
SubResults				
	231 V			
Ulpe				
XL	0,09 Ω			

Figure 6.3: Filter options

6.1.3 Tree View

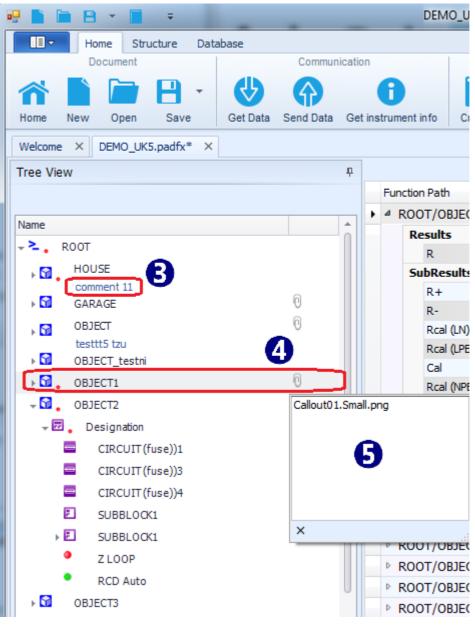
Tree View (**0**) displays database nodes in Parent-Child manner. Right clicking an entry in tree view gives you several possibilities (**0**):

Free View			ţ	
Name				
N .	Zloop		*	
45 .	Zsrcd			
۰	RCD t	-		
۰	RCD A	uto		
٠	RCD t	9		
۰ 🗖 .	Circu			
- 0	indica	Copy item	Ctrl+Shift+C	
٠ 🗖 .	Circu	Paste item as new	Ctrl+Shift+V	
. =	indica Circu	Paste item as same	Ctrl+Shift+W	
	Circu	Delete item	Shift+Delete	
	Circu	Rename	Ctrl+R	
+ E8	RCD'	Add/Edit Comment	Ctrl+E	
> 🔣	RCD2	Add Attachment	Ctrl+T	
•	RCD		Curr	
•	RCD	Print TreeView	6	
•	Zline	Print All Nodes	_ 4	
•	Zloop			1
	Zsrcd			

Figure 6.4: Tree View right click options

- Copy, Paste as new, Paste as same, Delete, Rename items are functions for manipulating nodes.
- Add/ Edit Comment: Write short comment (③) which appears as a string below selected entry.
- Instrument data: Data from the instrument attached to every measurement.
- Add Attachment: Add attachment to the selected entry. Attachments can be any data (picture, text file, object, etc). When the attachment (④) is added to an entry, the notification ① appears beside the parent entry. Attachments can be opened, removed or

edited. List of attachment ($m{\Theta}$) is showed with clicking on $^{\fbox}$.



- Figure 6.5: Attachment
- Print TreeView and All Nodes opens preview of selected nodes or all nodes. In preview
 (③) it is possible to edit Header and Footer, set Background colour, insert Watermark text
 or image. Also you can Export edited document in .pdf format. Preview contains all
 standard functions for editing printable files.

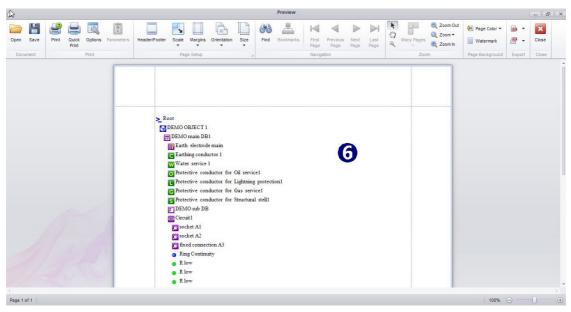


Figure 6.6: Preview editor

6.2 Menu Tabs

Menus are organized in tab style. Each menu tab opens a subset of functions.

6.2.1 Main and Home Tabs

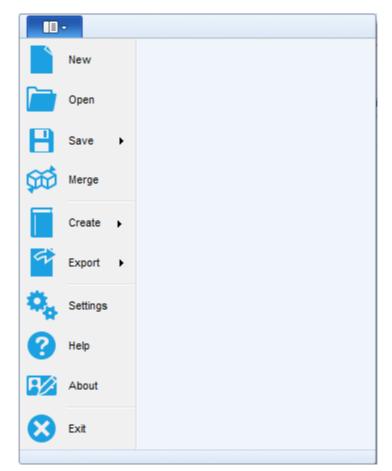


Figure 6.7: Main tab



Figure 6.8: Home tab

Document menu



ne: Navigates to welcome screen.



: Creates a new, empty MTLink document/database.



Open : Opens an existing MTLink document for analysing and editing.



Save - Saves the currently focused MTLink document file to the disk. If the file has not been saved yet (data was downloaded from the instrument, or user created a new file), the user will be prompted to define a location and name for the file.

Save as - File will be saved under different name. The user is prompted to define a new location and name for the file.

Communication menu

Communication menu contains commands related to importing data from / exporting data to instruments.



Get Data : Gets data from instrument.



Send Data: Sends data to instrument.



• Get instrument info: Basic information of the instrument (Name, Manufacturer, Type of instrument, Serial number, HW version, FW version, Calibration date, etc.)

Reports menu



Create Report - Opens wizard for creating new report.

Create from Template - Opens a Report template file (*.rtmpl).



Manage : Manages existing reports.

Tools menu



Template Editor : Manages templates of reports.



• Print Results : Print results.



• Auto test Editor : Tool for programming Auto tests. Refer to document *Programming Auto tests on MTLink* or Instruction Manuals of instruments for more information.

Other

•	: Combines two MTLink document files into single file with combined
	structure items and measurements.
•	Export
•	Export to Excel - Exports data to Excel file.
•	Export to XML - Exports data to XML file.
•	Settings : Opens menu for setting some general settings and managing licences.
•	C Help : Opens MTLink Help menu.
•	About : MTLink version information and Check for software updates option.
•	Exit : Exits application.
•	Work scope : Selection regarding the type of work (particular test settings, structure

elements, measurements and other parameters).

6.2.2 Structure Tab



Figure 6.9: Structure tab

Edit menu

The Edit menu contains commands related to data editing, copy/paste operations (similar to other Windows applications), and other common data operations. These commands are also available in the Tree view explorer's context menu, which is displayed using a mouse right-click. Depending on the node selected, different menu items which apply to that type of node will be displayed.



Copy : Copies the selected data.



Paste as new : Pastes the selected data - structure (and empty measurements) into the currently live view. This item will be disabled if no data was copied, or if the current selection does not allow pasting. For example, if a node is copied using the Copy command, then this menu item will be available only when the user selects a destination site or location node.



Paste as same : Pastes the selected data - structure (and measurements) into the currently live view. This item will be disabled if no data was copied, or if the current selection does not allow pasting. For example, if a node is copied using the Copy command, then this menu item will be available only when the user selects a destination site or location node.



lete : Deletes the currently selected data.

Structure items menu

The Structure tab contains sets of entries which are dependent on chosen Work scope. The Desired entry will appear in tree view as a child node of the selected parent when clicking on it. Which items are currently available (①) depends on the node selected in tree view (②). Active items are highlighted and passive items are shadowed. (③) shows a different node selected in Tree View and consequently a different set of items is highlighted (⑤). Also items in structure depend on the selected **Work scope**. The selection between different scopes of work is not supported in all software versions.

Home Structure Database			Home Structure Database	
Edit		Structure	Edit	Structure
Copy Paste as new Paste as same Delete				
Welcome × DEMO_UK5.padfx ×	Ŧ		Welcome × DEMO_UKS.padfx ×	
Tree View	+	Function Path	Tree View	Function Path
Name	*	A ROOT/GARAGE/BLs	Name	
	n	Results		Results
		r1	ROOT	r1 3
HOUSE		rn	HOUSE	rn 2
test komentarja 1		r2	test komentarja 1	rn 2 r2 6
📲 GARAGE 🛃 🕅		R1+RN c	- 🖬 GARAGE 📃 🕅	R1+RN c 64
		R1+R2 c	▶ BLOCK_Distribution_Board12	R1+RN c 60 R1+R2 c 4
BLOCK_Distribution_Board12				
BLOCK_Distribution_Board12 PV_INVERTER		(r 1+rN)/4	▶ 🔀 PV_INVERTER	(r1+rN)/4 76

Figure 6.10: Available structure items

Measurement menu

Evention button offers list of functions which can be added to a node in Tree View.

6.2.3 Database Tab

Contacts Organizer enables you to add a list of addresses (Name, Organization, Telephone Number, e-mail address, etc.) for clients, location and responsible person. This list helps you automatically complete addresses in reports while creating reports. MTLink creates links to the list and with one click MTLink will fill all address fields in a report.

Edit menu



Clear : Clear selected database list.

Edit 🖼										
The second secon										
Clear										
		Organization	Name	Address	Telephone	Mobile	Fax	Email	Enrolment Nu	E
C		orgunization						Linda	chi onnone nu	
	•	Smith & Co.	Mr. Smith	123 High street		554225456		smith@work	Lin olinoit rid	
Client	•				123456					
Location	►	Smith & Co.	Mr. Smith	123 High street	123456 545321	554225456		smith@work		
Client)`	Smith & Co. Smith & Co.	Mr. Smith Mr. Paul	123 High street 123 High street	123456 545321 445464	554225456 967565553		smith@work paul@work.c		

Figure 6.11: Contacts Organizer

Structure Names enables editing custom names of structure names.

Home Structure	e Data	abase		
Edit 🖬				
m				
lear				
		Picture	Caption	Custom name
ontacts	•	I 🕥	Object	Custom name!
		I 🔛	Object Node	Custom name!
Client		2		
Client Location		>	Node	Node
ontacts Client Location <u>Responsible person</u> tructure Names		2	Node Dist. Board	Node Dist. Board



6.2.4 Settings Menu

The **Settings menu** can be selected in the upper left corner of the window. In Settings it is possible to:

- Set a default path for a project file (**0**)
- View and set global settings (general settings, valid for all or a group of measurements)
 (2)
- Manage licences (
)
- Set Printout header
- Select language

Settings	Settings			Settings				
General Global Settings Licenses	General	Global Settings	Licenses	General	Global Settings	Licenses	Language	Ins
				The folk	owing license keys	are already	installed	
	Global pa	arameter settings.		Serial N	umber			
Use default document path	lsc f	actor	0,2	▶ 1412				
MyDocuments	Length Unit RCD Standard		m					
			BS 7671					
0	Z fa	ctor	0,75					
		2		Serial	License Key Number se Key Import license	from File		
OK Cancel	ОК	Cancel		ОК	Cancel			

Figure 6.13: Settings Tab

6.2.4.1 Licences

Appropriate licences must be entered to activate different functionalities of the software for individual measuring instruments. To activate additional functionalities the instrument serial number and licence key must be imported or manually entered into New Licence Key field. After a valid licence key is entered the instrument will be added to the list of supported measuring instruments with PRO licence.

Settings
General Global Settings Licenses Language Printout header
The following license keys are already installed Synchronize licenses
Serial Number
▶ 14400884
▷ 12345678
New License Key
Serial Number
License Key
Import license from File Add
ок

Figure 6.14: Menu for setting licences

6.2.4.2 Printout header settings

In this menu *Operator* and *Test site* can be set (selected from the database). These settings will be included in the Results printout header.

Settings	- • •
General Global Settings Licenses Language Printout header	
✓ Operator	
Mr. Smith	
▼ Test site Hotel Cube	
Hotel Cube	
ОК	

Figure 6.15: Printout header menu

7.1 Creating Structures

MTLink supports creating a tree structure. When you start a New Document, the default node NODE appears in tree view. NODE is a parent element in a new tree structure. After NODE, currently available elements in the Structure menu can be added.

7.1.1 Creating a New Document

To create a new structure click **Home** menu and then **New**. A new structure with name **NODE** will appear. To add a new element in project, navigate to the Structure menu. For example, after NODE an OBJECT (①) can be added. After the new element is added its parameters appear on the right side of main window (②). Parameters are editable and can be fulfilled from database. Also parameters can be added by drop down menus. All elements can be edited with a right click.

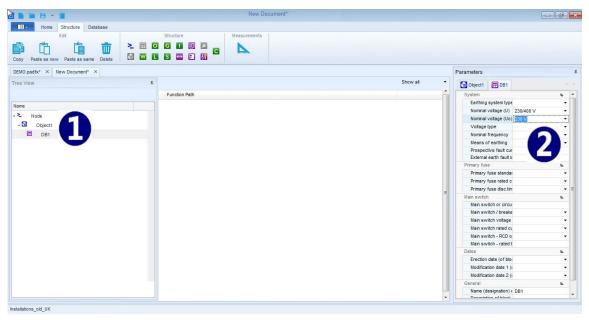


Figure 7.1: Creating Document

7.1.2 Building a structure with measurements using Copy&Paste as new and Copy&Paste as same

With help of Copy&Paste commands it is possible to create large structures with measurements in a fast and simple way. The following rules are to be considered:

7.1.2.1 Operations within one file

Copy&Paste as new a structure item with sub-items and measurements:

• Yes - Paste structure and measurements without results:

The copied structure items will be stored as new structure items with the same parameters. As it is not permitted to have the same measurements inside one document in two or

more places, the copied measurements will be stored as new empty measurements (with same parameters and limits but without results).

• **No** - Paste structure only:

Paste only the structure without measurements: The copied structure items will be stored as new structure items with the same parameters. Measurements will not be copied.

Copy&Paste as same a structure item with sub-items and measurements:

• Yes - Paste structure and measurements without results:

The copied structure items will be stored as new structure items with the same parameters. As it is not permitted to have the same measurements inside one document in two or more places, the copied measurements will be stored as new empty measurements (with same parameters and limits but without results).

• **No** - Paste structure only:

Paste only structure without measurements: The copied structure items will be stored as a new structure items with the same parameters. Measurements will not be copied.

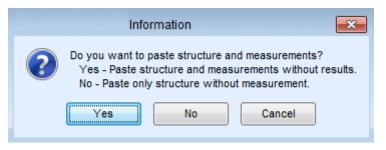


Figure 7.2: Example of Paste options

7.1.2.2 Operations on two files

Copy&Paste as new a structure item with sub-items and measurements from one file to another:

• Yes - Paste structure and measurements:

The copied structure items will be stored in the target file as new structure items with the same parameters. The copied measurements will be stored as new empty measurements (with same parameters and limits but without results).

• **No** - Paste only structure without measurements:

Paste only structure without measurements: The copied structure items will be stored in the target file as new structure items with the same parameters. Measurements will not be copied.

Copy&Paste as same a structure item with sub-items, measurements with results from one file to another:

• Paste structure and measurements with results:

The copied structure items and measurements with different id-s will be stored in the target file as new structure items with the same parameters and results. Functionality is equal to **Copy&Paste as new with Yes selected**.

Merge

If the structure items or measurements with the same id-s already exist in the target file, data will be pasted on the same location in the document file. Measurements with different id-s will be pasted as normally.

<u>Case study: Example of Merge functionality:</u> Hotel with multiple rooms and floors – Test report for a hotel is needed.

Complete structure and measurements of a hotel is loaded on multiple instruments. Each tester measures one floor only. Data from all instruments is downloaded to the MTLink. Test report, if created now, will include complete structure but only single floor measurements, which is not what is needed. Using Merge function, data from all instruments can be merged into a single document file. Complete test report can now be created.

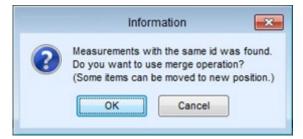


Figure 7.3: Merge confirmation window

Relocate

If one or more structure items with the same id-s exist in the target file, regarding to the source file, source data will be pasted to the target document file as added complete structure.

<u>Case study</u>: Example of Relocate functionality: Hotel with multiple rooms in multiple equal floors – Test report for a hotel is needed.

Same structure covering only a single hotel floor is loaded on multiple instruments. Each tester measures one floor only. Data from all instruments is downloaded to the MTLink. Test report, if created now, will include only single floor measurements, which is not what is needed. Using Relocate function, data from all floors can be combined into a single document file. Complete test report can now be created.

🖳 Structure items with the same id was found.
Merge duplicates using source data.
Relocate structure
Cancel

• Figure 7.4: Relocate confirmation window

8.1 Measurements

MTLink is capable of capturing measurements from different Chauvin Arnoux machine testers or new measurements can be created with help of the **Measurements** menu (window).

8.1.1 Creating a new measurement

When the Measurements command is selected a list with measurements is opened $(\mathbf{0})$.

8 • • •		New Document*
Home Structure Databa	ase	
Edit	Structure	Measurements
Copy Paste as new Paste as same		
DEMO.padfx* × New Document* ×		AUTO TT Meters
Tree View ₽ Name ✓ Node ✓ Object1 ✓ DB1 ☑ Circuit1	SI Function Path	Continuity Object1 Currents Fring Earth 1 clamp Type of wirin Earth 2 clamp Reference m Earth Live circuit con Illumination PE circuit con IMD Maximal lengt ISFL Use
		Power Circuit fuse s R iso Circuit fuse r Rpe Max. circuit f RCD Auto CD RCD I Circuit - RCD RCD I Circuit - RCD RCD UC ates Ring Continuity Modification of Ro Ro eneral Voltage Drop Circuit number Name (design Jescription of C Z line Location of C
		Z loop
Installations_old_UK		Zs rcd

Figure 8.1: Measurements

When measurement is selected, the window with parameters and measurements is opened. Parameters can be set before measurements are carried out. With click on save, all parameters are added to the currently selected structure.

			Voltage		X
Save Cancel Edit	Clear All				
Overall Resu			Para	ameters	
	Uln	v		DateTime 29.10.2014 14:02:56 •	
	Ulpe	v			
	Unpe	V			
	U12	v			
	U13	v			
	U23	V			
SubR	Results				
	Freq	Hz			
	Field				
Sav	Cancel				

Figure 8.2: Edit measurement parameters

Once the parameters and measurements are in a structure they can be sent to an instrument, connected with MTLink. Parameters can be saved in instrument memory and can be recalled at any time. This feature of MTLink enables you to make quick and efficient measurements in the field.

8.1.2 Status of measurements

Measurements can have four different states. The status icon is shown in Tree view before the name of measurement.

Status of measurements

- Passed finished measurement with test results.
- Failed finished measurement with test results.
- Finished measurement with test results and no status.
- O: Empty measurement without test results.

8.1.3 Viewing measurements

All measurements appear in a middle window (**0**). Beside the name of the measurement is a parameter which designates the status of measurements (**0**). Measurements can have status **Pass**, **Fail** or **Nothing** (no status). Statuses of measurements can also be seen beside the element in Tree View (**2**) as green dot for Pass, red dot for Fail and blue dot for no status.

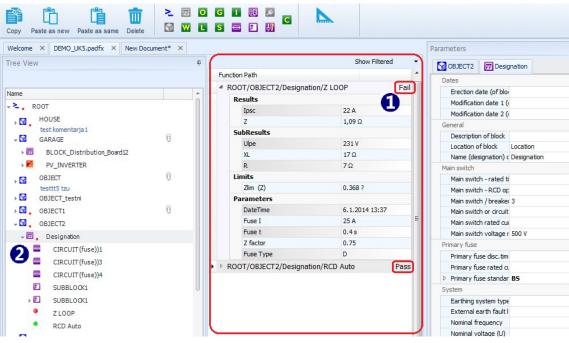


Figure 8.3: Viewing measurements

8.1.4 Printing results

Measurement results and parameters (1) including the header data (Operator, Test site and

Instrument data) (②), can be printed using the Print Results button. All data under the selected structure will be included in the Results printout. If a measurement is selected then only results and parameters of a selected measurement will be printed. Instrument data is automatically set when downloading results while Operator and Test site data should be set manually from the Settings menu.

12		Preview	- • •
Print Quick Print Parameters Print	Header/Footer	Find First Page Navigation Zoom	Page Color Page Background
	R	esults printout	
	Operator Mr. Smith	Test site: Hotel Cube	2
	<mark>Instrument data:</mark> Type: Model: Virtual Instrum en t	Serial number: Manufact ure:	Report created on: 23/03/2015
	Node/Object/Block/Fuse/R-ISO/R iso Results Riso		Empty
	SubResults Um Limits Limit (Riso)		
	Parameters DateTime Uiso TypeRiso	09/01/2000 10:44 500 V L/N	
	Node/Object/Block/Fuse/R-ISO/R iso Results Riso SubResults		Empty

Figure 8.4: Printing results

9.1 Establishing communication with instruments

Communication with instruments is established via RS-232 port, USB or Bluetooth (virtual COM port).



Click on Get Data , Send Data or Get instrument info opens dialog box for setting parameters of communication.

COM port		
COM1: Communications Port	•	
	Start	Close

Figure 9.1: Setting communication

9.1.1 Instrument info

۲

Basic information of the instrument (Name, Manufacturer, Type of instrument, Serial number, HW version, FW version, Calibration date, etc.) can be obtained. If no data is displayed, see chapter <u>Troubleshooting.</u>

Calibration date	01/02/2018
Firmware version	1.51:3709
Hardware version	4.0
Instrument code	ALAA
Manufacturer	METREL d.d.
Name	Chauvin Arnoux
Serial	14400884
Short Name	C.A 6165
User	Smith
There are no new updates Check for new updates,	available.

Figure 9.2: Instrument info screen

9.1.2 Upgrading the Firmware

With new type of instruments there is a possibility within MTLink to upgrade firmware of your instrument with the latest version. Internet connection is needed. On the Instrument info screen click on **Download** and follow the instructions. Program (FlashMe) will start, which will guide you through the upgrade procedure. For more information if this feature is supported for your instrument see instrument Instruction manual or contact your dealer.

Instrument info	×
Calibration date	01/02/2018
Firmware version	1.51:3709
Hardware version	4.0
Instrument code	ALAA
Manufacturer	Chauvin Arnoux
Name	EurotestXC
Serial	14400884
Short Name	C.A 6165
User	Smith
New update is available. Versia Download.	on: 1.51
c	lose

Figure 9.3: Uploading Firmware



Note

For detailed set up procedure please see the user manual of the attached instrument on your computer! User manuals can be downloaded from our website <u>www.chauvin-arnoux.com</u>

10.1Creating Reports

MTLink supports comprehensive test reports that consist of inspection pages and test result pages. Reports can be created with the report wizard in the Reports menu. Report wizard is step-by-step tool for completing final report in a "what you see is what you get" manner. Each page of the report is shown with click on Next button to navigate. On pages some fields are filled in advance with measurements and other fields are filled manually. Fields which must contain addresses and dates have drop down menus with pre-stored addresses in the Database Tab or calendar for dates.

10.1.1 Creating Reports Step by Step

10.1.1.1 Select Report Format

Select the element in TreeView for which you want to create a report. After clicking on Create Report button, MTLink opens the report selector dialog box, shown in the Figure below. User can select preprepared reports.

Report Selector
Name
⊿ ET
EIC (DEMO REPORT)
EICS (DEMO REPORT)
Create Cancel

Figure 10.1: Report selector box

10.1.1.2 Report Wizard Welcome Screen

When the user clicks on **Create** button the report wizard screen is displayed. On top of the window are standard menus for navigating to pages, saving and exporting reports. When you click the Page tab, you can navigate directly to any desired page of a report.

		EIC		
Report Navigatio	Print			
Save Close First Previous I	xt Last to PDF Prin	t		
Page 1 Page 2 Page 3 Page 4 Pag	Page 6 Page 7 Page	8 Page 9		
				<u>_</u>
Form 2		Form	n No: ./2	
ELECTRICAL INSTALLAT				
(REQUIREMENTS FOR ELECTRIC	L INSTALLATIONS - BS 76	71 [IET WIRING REGULATIONS	5])	
CLIE NT Client_test_name, client_test_org			Post Code: 1324_Cl	E
			Post Code. Toza of	
INST ALLA client_test_adress				
TIO N			Post Code: 1354-client	
DESCRIPTION AND EXTENT OF	E INSTALLATION Tick box	es as appropriate	New installation	
Description of installation:				
Extent of installation covered by this	Certificate:		Addition to an	
			existing installation	
			Alteration to an	
			existing installation	
(Use continuation sheet if necessar FOR DESIGN		see continuation sheet No:		
I/We being the person(s) responsible	for the design of the electric	al installation (as indicated by my	y/our signatures below), particulars	
of which are described above, having				
design work for which I/we have be amended to (date) except	the departures, if any, deta		accordance with BS 76/1:2008,	
Details of departures from BS 7671			1	

Figure 10.2: Report Wizard Lookout

10.1.1.3 Check and Fill Report Pages

All pages are like an original report and they are shown in "what you see is what you get" style. The user can click on every field on the page and modify it. At every step you can go one page back or one page forward. The following figure shows how to pick a date from calendar ($\mathbf{0}$) and select address from database ($\mathbf{0}$).

Report Normalization Perf EX EX EX EX EX Sixe Class Previous Nati Ex Ex Pase1 Pase2 Page Page Page Page Page Page Page Page	٥		EIC	
(REQUREEMENT SPOR ELECTRICAL INSTALLATIONS - BS 7671 (IET WIRING REGULATIONS)) DETAILS OF THE CUIENT Or opendent ware Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register n. Post ode: 1324_CI Opendent Mark Address Telephone Mobile Fax Email Register				
Circlest_stance, clent_test_org Post or de: 1324_cli Organizat Name Address Telephone Mobile Fax Email Register n. Post or de: 1354-client Organizat traine Address Telephone Mobile Fax Email Register n. Post or de: 1354-client OK Cance Organizat Mo Image: standard organization Image: standard organization Image: standard organization OK Cance Organization Ateration to an existing installation Image: standard organization Image: standard organization IVWe being the person(s) responsible for the organization Image: standard organization Image: standard organization Image: standard organization Image: standard organization IVWe being the person(s) responsible for the organization Image: standard organization Image: standard organization Image: standard organization Image: standard organization IVWe being the person(s) responsible for the organization Image: standard organization Image: standard organization Image: standard organization Image: standard organization IVWe being the person(s) responsible for the organization Image: standard organization Image: standard organization			ATIONS])	
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OK Cance On to an on similation on the first indication on the similation on the similation on the similation of	Organizat Name Address Telephone Mod client_te client_test_adress	olle Fax Email Register n.		
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For the DESIGN of the installation: Clear Clear Clear		13 14 15 16 17 18 19 20 21 22 23 24 25 26		
		3 4 5 6 7 8		
	Signature: Date:		Designer No 1	

Figure 10.3: Pick a date from calendar and select address from database example

Measurements downloaded from Chauvin Arnoux machine testers (Θ) and ticks (Θ) are automatically filled in the table.

De	eport Naviq	-			Pri																	
Re		-			Pri																	
1	· 😢 🔣 🚺			1	\succ																	
ve	Close First Previous	Next L	Last	to	PDF	Print																
1	Page 2 Page 3 Page 4 I	Page 5 Pa	ge 6	Page	0.7	Page 8	Da	ae 9														
		aye 5 Fa	yeo					-														_
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	sted by:																Te	st res	ults			
Na	ime (Capitals)			Date						ng fina t conti		(2	tinuity Ω)		lation stance	Polarity	Zs		RCD		Remarks	
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 Circuit number 	Circuit Description	Circuit detai Over	curren editi 4	ہ rating (A)	1	² Method	" Live (mm ²)	° cpc (mm²)	₅ r₁ (line)	≞ r _n (neutral)	t₂ (cpc)	tic (R1+R2) * s	R2 24	5 Live-Live ♥	¹⁶ Live-E	17	18	≅ @ I₂n	8 @ 51 ₅ n	Test button / ¹² functionality		
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L Circuit number	Circuit Description Circuit1 socket A1 socket A2	Circuit detai Over	ecurrent addt 4	ہ rating (A)	1	² Method	5.5 °° Live (mm ²)	° cbc (mm ₃) 2.5	₅ r₁ (line)	(Ω) ¹¹ L ^u (uentral)	(cbc)	or * (K1 + K2) * 0.45	R2	(N Irive-Live	¹⁶ Live-E	17	18	u ^v I @ ^a 36	8 @ 51 ₅ n	Test button / ¹² functionality		
circuit number	Circuit Description Circuit1 socket A1 socket A2 fixed connection A3	Circuit detai Over	ecurrent addit 4	t devid v rating (A)	1	ດ Reference ⊸ Method	(zmm) avi 2.5	(cuuu) odo ° 2.5	0 ¹ L ¹ (line)	(Ω) [™] L ^u (uentral) 1.57	(cdc) ² J ¹² 1.49	or *(² X+ ¹ X) ¹³ 0.45	R2 0.15	(N anitre-Live-Live-Live-Live-Live-Live-Live-Liv	H-9-71 16 625	•	<u>18</u> 0.46	uv @ 29 36	500 N 39	Test button / ¹² functionality		
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Figure 10.4: Measurements with results are automatically filled in the report

10.1.1.4 Exporting or printing final report

After completing all pages the user can chose the preferred output format of the final report. These options are available:





to PDF : Saving the report as "*.pdf" file



Save : Save, Save as - Saving the report into a project file under the same or a new name



Save : Save as Template - Saving the report as a template form



Note

Printing the report directly to a printer may not work for some older models of printer. In which

case choose print to pdf. A pdf version will be created and can be printed using Adobe[®] Acrobat reader[®], available from [http://get.adobe.com/uk/reader].

11.1 Manage Reports

All previously created and saved reports can be managed via Manage Reports menu which opens a list of existing reports in the Project file. Each report can be opened for editing, deleted or re-created (**0**).

- 💼 : Delete Report
- E: Open Report
- O: Re-create Report (Update with new data from a file)
 - Θ
 - Refresh : Refresh list of existing Reports

Θ Θ		
tefresh Close		
Tool		
Report Name	Creation Date	Structure path
Report Name		
	29.4.2014	ROOT//GARAGE
🕨 🛅 🕑 PR5	29.4.2014	ROOT//GARAGE

Figure 11.1: Manage reports

11.2Re-create Reports

All existing or saved reports can be re-created via Re-create button . Re-creation of report updates the selected report with new data from a file. All earlier data in the report that were not updated remain unchanged.

R	Re)	Clo				
				Report	Name	Creation Date	Structure path
	ŵ		0	PR5		29.4.2014	ROOT//GARAGE
	Ē		0	CR6		12.6.2014	ROOT//GARAGE
				EICR	warning		
					Do not show t	OK nis message again	

Figure 11.2: Re-create reports

12.1E diting Report Templates

Reports can be saved as templates (".rtmpl" file). Report templates can be used in combination with different files (Projects). Template Editor command opens a list of existing template files. Opened template file can be edited and saved or saved as new templates.

		EIC							
R	cport Navigation	6							
ave	Close First Previous Next Last								
age	1 Page 2 Page 3 Page 4 Page 5								
	Form 2 ELECTRICAL INSTALLATION CERTIFI (REQUIREMENTS FOR ELECTRICAL INSTALLATIO								
	DETAILS OF THE CLIENT								
T	client test name, client test org	Post Code: 1324 Cl							
A A	INSTALLATION ADDRESS client test adressPost Code: 1354-client DESCRIPTION AND EXTENT OF THE INSTALLATION Tick boxes as appropriate								
	Description of installation:	New installation							
	Extent of installation covered by this Certificate:	Addition to an existing installation							
	(Use continuation sheet if necessary)	Alteration to an existing installation							
	FOR DESICN //We being the person(s) responsible for the design of the electrical installation (as indicated by my/our signatures below), particulars of which are described above, having exercised reasonable skill and care when carrying out the design hereby CERTIFY that the design work for which i/we have been responsible is to the best of my/our knowledge and belief in accordance with BS 7671:2008,								
	design work for which I/we have been responsible is t amended to (date) except for the departures								

Figure 12.1: Template Editor

12.2Using Report Templates

Saved templates can be used with the **Create from template** option in Create Reports (Main tab). Selected report from templates will be updated with new data from a file. All previous data in the template that were not updated remain unchanged.

13.1 Introduction to troubles hooting

This chapter contains information that might be helpful if you encounter problems while working with MTLink. If you don't find the help required to troubleshoot your problems, you can contact us directly...

Your comments will help us improve our product and update the manuals with any necessary information.

13.2Instrument connection troubles hooting



Figure 13.1: Instrument connection error message

If the instrument settings are configured correctly, and the communication still does not work, please check the following:

- Make sure that the cable is not broken and that the connectors are inserted properly. If you have another device which can be connected using the same cable, consider testing the cable using that device to make sure that it works.
- Make sure that you close all other applications that might be using the port. You can also try restarting Windows to make sure that all such applications are closed.
- If none of this helps, there might be a problem with the device driver for the port you are using. You could try to reinstall or repair MTLink to make sure that your USB drivers are up to date.
- If using Bluetooth communication make sure that Bluetooth is paired and correct virtual COM port is selected. If communication cannot be established, initialize Bluetooth module on the instrument (see Instruction manual of instrument for details). Also consider limitations regarding communication range.



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