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Exporting Stored Data In Dewesoft X



Exporting data

With <u>Dewesoft X</u> used as an acquisition package, we can use other post processing packages for advanced analysis. **Data export** is easy, fast, flexible and dynamic with <u>Dewesoft X</u>, supporting a wide variety of popular formats that make data files highly transportable and can be imported into virtually any analysis program.

		Q	Dewesoft	X - Data	file: Test	.dxd			
	Measure	Analyse	Data files	Setup	Review	Print	Export		
-\$	-	Flotto E	-	~					
Dewesoft	File export	Flexpro MS E	cel Clipboard	Export					
Export typ	Export type								
Flexpro (*.fpd)		~						
Data prese	entation								
Full speed	l data	✓ Relative tin	ne 🗸						
Real	Real Imag Ampl Phase								
Settings									
Ignore	Export setup to xml file Ignore gaps between triggers Export per channel								
Retain	original chan	nel names							
Export file	name								
File directory Existing files									
C:\ C:\ Dew Exp Cor	orts		✓ Test.fpd	I					

Image 1: Export tab in Dewesoft

To enable efficient export data process to perform the following procedure:

- 1. Set export data properties define the type of data with data export and determine time axis (time range of data for export can be defined)
- 2. Exported channels select the channels to export from channel list
- 3. Export option select another software application as target for data export and offline analysis (MS Excel, FlexPro, Dewesoft, File export, Clipboard, ...)
- 4. Template management create and edit templates (scripts) which are listed on central post-processing in FlexPro and MS Excel part of the screen
- 5. Perform export data after all settings are done, select Export data button to export data

We have also two special procedures to:

- Export multiple files
- Export instrument display to video

Time range of data

Sometimes our data file contains a lot of acquired data and we don't need the whole range of data for analysis. We can select only one part of the data and perform analysis and export only on the selected part.

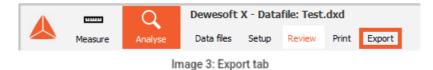


Image 2: Preview of the :	zoomed	region
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To export only a part of acquired data, select the time range on the recorder (or vertical recorder) with zooming in the portion of data.

NOTE: Only the selected portion of data will be exported. To export the full range of data, first zoom out to the entire length of data.

To export the selected data, press the Export button on the main <u>Dewesoft X</u> toolbar. The Export button is available only in Analyse mode.



Once you press the Export button, the following window will appear:

Dewesoft	X - Datafile: Test.dxd					- 0	×
Measure Analyse Data files	Setup Review Print Export					=	Options
🚸 🕞 🐯 📑 🚺	Supported SW applica	ations					
Dewesoft File export Flexpro MS Excel Clipboard	Export> Export command			Available channel	s in data file		
Export type		Channels					
Flexpro (*.fpd)	→ Supported formats	Search	Q	\otimes \otimes			
Data presentation		Export order	Exported	Ch. no	Name	Sampling 🔳	Rate
Full speed data V Relative time V		1	Yes	AI 1	acc	Synchronous	20000 Hz
Real Imag Ampl Phase	Export properties	2	Yes	AI 6	tacho	Synchronous	20000 Hz
Settings		3	Yes	Order tracking 1 (Order tracking)	Speed	Asynchronous	19,7 Hz
Export setup to xml file		4	Yes	Order tracking 1 (Order tracking)	acc/Overall RMS	Single value	unknown
Ignore gaps between triggers		5	Yes	Order tracking 1 (Order tracking)	acc/Order waterfall	Single value	unknown
Export per channel	───── Export settings	6	Yes	Order tracking 1 (Order tracking)	acc/FFT waterfall	Single value	unknown
Retain original channel names		7	Yes	Order tracking 1 (Order tracking)	acc/Time domain	Asynchronous	19,7 Hz
Export file name		8	Yes	Order tracking 1 (Order tracking)	acc/Order waterfall	Asynchronous	3,5 Hz
	→ File name	9	Yes	Order tracking 1 (Order tracking)	acc/Order H1	Single value	unknown
File directory Existing	files	10	Yes	Order tracking 1 (Order tracking)	acc/Order H16	Single value	unknown
Test.fpd		11	Yes	Order tracking 1 (Order tracking)	acc/Order H32	Single value	unknown
		12	Yes	Angle sensor math 1 (Angle sens	tacho/Trigger	Synchronous	20000 Hz
🗁 Dewesoft	and filling discontants	13	Yes	Angle sensor math 1 (Angle sens	tacho/Angle	Synchronous	20000 Hz
	ort files directory nd existing files	14	Yes	Angle sensor math 1 (Angle sens	tacho/Frequency	Asynchronous	28,0 Hz
		15	Yes	Formula 1 (Formula)	H1_real	Single value	unknown
		16	Yes	Formula 2 (Formula)	H1_imag	Single value	unknown

Image 4: File export window

Set export data properties

Data export



Image 5: Data presentation

Type of data

Select the type of data from the data export drop-down list.

- Full speed data, real data exported with full speed
 - Real, export the real part of the values
 - Imag, export the imaginary part of the values
 - Ampl, export the amplitude of the data
 - Phase, export the phase
- Reduced data, for this type of data we can select several different calculations
 - Min, export the minimum values
 - Max, export the maximum values
 - $\circ~$ RMS, export the RMS of the data
 - Average, export the average from the data

Time axis

Select the type of time scale from time axis drop-down list:

- Relative time axis will start with time when the data storing started. If storing started at the beginning of the measurement the relative time is zero, otherwise it is the relative time when data storing started after the beginning of the measurement.
- Absolute time axis will export absolute date and time of measurement as the time axis.
- Trigger time axis will start with time 0 at the trigger point (pretrigger will show negative time values).
- Pre Trigger time axis will start with time 0 at the beginning of the measurement.

Exported channels

The next step is to select the channels to export from the displayed channels list:

Channels												
Search	۹	$\otimes \otimes \otimes$										
Export order	Exported	Ch. no	Name	Sampling 🔳	Rate	Data str 🔳	Data type	Unit	Min value	Max va	Export rate (Hz)	Resampler type
1	Yes	AI 1	acc	Synchronous	20000 Hz	Scalar	Integer	m/s2	-131,70	132,72	Default	Disabled
2	Yes	AI 6	tacho	Synchronous	20000 Hz	Scalar	Integer	V	-0,90	11,05	Default	Disabled
3	Yes	Order tracking 1 (Order tracking)	Speed	Asynchronous	19,7 Hz	Scalar	Single precision	rpm	170,91	3367,94	Default	Disabled
4	Yes	Order tracking 1 (Order tracking)	acc/Overall RMS	Single value	unknown	Vector (351)	Single precision	m/s2	0,00	0,00	Default	Disabled
5	Yes	Order tracking 1 (Order tracking)	acc/Order waterfall	Single value	unknown	Matrix (512x	Single precision	m/s2	0,00	0,00	Default	Disabled
6	Yes	Order tracking 1 (Order tracking)	acc/FFT waterfall	Single value	unknown	Matrix (2048	Single precision	m/s2	0,00	0,00	Default	Disabled
7	Yes	Order tracking 1 (Order tracking)	acc/Time domain	Asynchronous	19,7 Hz	Vector (3)	Complex (single)	m/s2	0,00	0,00	Default	Disabled
8	Yes	Order tracking 1 (Order tracking)	acc/Order waterfall	Asynchronous	3,5 Hz	Vector (512)	Single precision	m/s2	0,00	0,00	Default	Disabled
9	Yes	Order tracking 1 (Order tracking)	acc/Order H1	Single value	unknown	Vector (351)	Complex (single)	m/s2	0,00	0,00	Default	Disabled
10	Yes	Order tracking 1 (Order tracking)	acc/Order H16	Single value	unknown	Vector (351)	Complex (single)	m/s2	0,00	0,00	Default	Disabled
11	Yes	Order tracking 1 (Order tracking)	acc/Order H32	Single value	unknown	Vector (351)	Complex (single)	m/s2	0,00	0,00	Default	Disabled
12	No	Angle sensor math 1 (Angle sensor math)	tacho/Trigger	Synchronous	20000 Hz	Scalar	Single precision		0,00	1,00	Default	Disabled
13	No	Angle sensor math 1 (Angle sensor math)	tacho/Angle	Synchronous	20000 Hz	Scalar	Single precision	deg	0,00	360,00	Default	Disabled
14	No	Angle sensor math 1 (Angle sensor math)	tacho/Frequency	Asynchronous	28,0 Hz	Scalar	Single precision	Hz	0,00	56,33	Default	Disabled
15	No	Formula 1 (Formula)	H1_real	Single value	unknown	Vector (351)	Double precision		0,00	0,00	Default	Disabled
16	No	Formula 2 (Formula)	H1_imag	Single value	unknown	Vector (351)	Double precision		0,00	0,00	Default	Disabled
17	No	Integral, derivative 1 (Time integration, derivation)	vel	Synchronous	20000 Hz	Scalar	Single precision	mm/s	-0,79	0,48	Default	Disabled

Image 6: Preview of the exported channels grid

Selection can be made in two ways:

Click on the

icon in the Exported column to select from displayed menu:

- Select all channels all the channels will be selected for export.
- Deselect all channels this will deselect all the channels. None of the channels will be exported.
- Invert selection this will invert you selection. The channels that were selected for export, will not be selected anymore and the channels that were not selected, will be selected for export.

Exported	Ch no
Yes	Select all
No	Deselect all
No	Invert selection
	Edit columns
No	6
No	Sort by this column
No	Unsort

Image 7: Options of choosing the channels

In the Exported column toggle between these choices to export/do not export particular channels. If the rectangular is
in dark grey color, the channel will be exported and if the rectangular is in light gray color, it will not be selected for
export.



NOTE: As a standard, all channels will be exported.

Channels can be moved up with the click on



button and down with the click on the



button. This will change the export order.

With the click on the



button, your selected channel will be moved on the top.

The export list options will be stored when we choose Store settings and events from main data manu,

Dewesoft X "online" export options

In <u>Dewesoft X</u> you can define which channel will be exported, in which order export the channel and the exported rate before starting the measurement.

Go to Global channel view, which can be found under More / General / Channels.

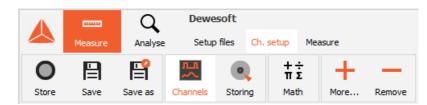


Image 9: Preview of all used channels in the measurement setup

Right click on the main column and select Edit columns option.

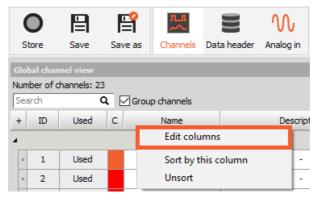


Image 10: How to change the columns in the grid

- Exported in the Analysis mode, when exporting data, the channel will be selected for export.
- Export order define the export order, channel with number 1 will be exported first, ...
- Export rate (Hz) for each individual channel define the export rate.

🛦 Choose columns		×
Select columns you wish to display		
export	8	
Exported Export order		Move up
Export rate (Hz)		Move down
		Show
		Hide
		Default
Width of selected column (in pixels)	20	
Number of digits	0	
	ОК	Cancel

Image 11: Selected columns you wish to display

Export options - different formats

Dewesoft X supports the following data export possibilities. Simply click on the preferred application to select it.



- Dewesoft stores selected area in new Dewesoft data file (used to cut files)
- File export several file formats (txt, unv, uff, mat, dat, wav, ...)
- FlexPro direct data transfer via ActiveX
- MS Excel direct data transfer via ActiveX
- Clipboard copy the data to Window's clipboard, it allows pasting the data into another running application

We strongly recommend FlexPro, a third-party application that is easy to learn and use, and yet extremely powerful. <u>Dewesoft X</u> offers easy export to this format and advanced automation when data is exported to this program, including the ability to run custom macro scripts inside.

The other file formats (except FlexPro and MS Excel) just prompt you for a filename, which you supply using s standard Windows file dialog box. Click **Export** and the software will do the rest. Be sure to supply a proper filename extension.

File export

The supported data file formats are:

- FlexPro [*.fpd] Powerful, easy-to-use data analysis software
- Microsoft Excel [*.xls] Standard spreadsheet software (not useful for large amounts of data)
- DIAdem [*.dat] Powerful data analysis package for the automotive industry
- Matlab [*.mat] Common analysis and mathematics package
- Universal file format 58 [*.unv] For import to 3D modeling and structural analysis software from different vendors
- FAMOS [*.dat] FAMOS file format export
- NSoft time series [*.dac] NSoft file format
- Text File [*.txt] Delimited ASCII text file
- Sony [*.log] Sony DAT recorder data format
- RPC III [*.rsp] RPC III data format used for road load data analysis
- Comtrade [*.cfg] Comtrade data format for power analysis
- Technical data management [*.tdm] LabVIEW compatible data format
- JSON [*.json] JavaScript Object Notation format is an open-standard file format that uses human-readable text to transmit data objects
- ASAM MDF4 [*.mf4] Standard file format in the automotive industry
- ASAM ODS [*.atfx] Standard file format in the automotive industry
- S3 [*.s3t] nCode S3 Time Series data type
- ATI [*.ati] For direct import in iDEAS analysis package (available as custom export)
- HDF5 [*.h5] H5 files are commonly used in aerospace, physics, engineering, academic research, electronics

instruments, and medical fields

- DynaWorks neutral file [*.nt] DynaWorks compatible data format
- Standard data file (SDF) [*.dat/sdf] For direct import in Prosig analysis package (available as custom export)
- WFT [*.wft] Nicolet file format (available as custom export)
- Replay [*.rpl] Used to simulate data readings from Dewesoft data acquisition devices
- Wave [*.wav] Wave audio data format (available as custom export)
- Google earth [*.kml] Export of GPS path to Google earth (available as custom export)
- BWF [*.dat] Multi channel audio data format (available as custom export)
- CAN messages [*.csv] tab delimited export of CAN messages for replay in demo mode
- CAN messages [*.asc] tab delimited export of CAN messages for replay in demo mode
- IFile CA [*.ifl] Export of combustion data to AVL Concerto compatible
- TAFFmat [*.hdr] Teac Data Acquisition File Format
- Winplot [*.sun] Data format compatible with Winplot, a powerful desktop graphical analysis tool that allows the user to generate displays of unrestrictive amounts of data.

File export

If you select the File export option, the following display appears:

Dewesoft X - Datafile: Example_Driv	ve01.dxd			- 🗆 🗙
Measure Analyse Data files Setup Review Print	Export			Options
🦘 🕞 🐻 🖶 🚺 🗸				
Dewesoft File export Flexpro MS Excel Clipboard Export				
Export type	Channels			
Universal file format 58 (*.unv, *.uff)	Search	Q	\otimes \otimes \otimes	
Data presentation	Export order	Exported	Ch. no	Name
Full speed data V Relative time V	1	Yes	AI 4	GPSvel
	2	Yes		CNT 0
Settings	3	Yes	CAN 0/#C2/0	STWH_ANGLE
Export setup to xml file	4	Yes	CAN 0/#C2/15	STWH_SIGN
Ignore gaps between triggers	5	Yes	CAN 0/#1A0/17	V_SPEED2
Export per channel	6	Yes	CAN 0/#280/16	ENG_RPM
Export header	7	Yes	CAN 0/#288/24	V_SPEED
Export "Dataset" In line 2 V	8	Yes	CAN 0/#380/16	GAS_PEDAL
Export "StartTime" In line 3	9	Yes	CAN 0/#420/8	TEMP_OUTSIDE
Export "ChannelName" In line 5	10	Yes	CAN 0/#4A0/1	WSPEED_FL
File extension	11	Yes	CAN 0/#4A0/17	WSPEED_FR
	12	Yes	CAN 0/#4A0/33	WSPEED_RL
	13	Yes	CAN 0/#4A0/49	WSPEED_RR
Export file name	14	Yes	CAN 0/#5A0/0	ACC
Example_Drive01	15	Yes	Channel 0	Math 0
File directory Existing files	16	Yes	GPS	X absolute
Example_Drive01.unv	17	Yes	GPS	Y absolute
C:\ → Dewesoft	18	Yes	GPS	Velocity
Exports	19	Yes	GPS	Direction
Config	20	Yes	GPS	Used sattelites
	21	Yes	Video	Camera 0

Image 13: File export tab

- Export file name name of exported file
- File directory name of directory where the exported files are saved; select it with double click from drop down list
- Existing files list of existing files in selected directory that are the same type
- Export file type list of available exported file type

The supported data file formats are:

Build-in formats

FlexPro (*.fpd) - powerful, easy to use data analysis software

Seture Search C C Full speed data Relative time Imag Anpl Phase Search C C Export order Export order Export order Export order Export order Export order Ch. no Name Sampling Rate Data Settings Imag Anpl Phase Search C C C Devot order Export order Export order Export order Export order Export order Ch. no Name Sampling Rate Data Settings 1 Yes A.I 1 acc Synchronous 20000 Hz Imag Imag Synchronous 20000 Hz Imag Imag Synchronous 20000 Hz Imag Imag Imag Synchronous 20000 Hz Imag	Dewesoft X - Datafile: 320 - Ordertracking ScooterMotor coastdown.dxd – 🗆 🗙										
Dewcesoft File export Flexpor MS Excel Clipboard Export Data presentation Channels Full speed data Relative time Search Image Image Ampl Phase Search Image Image Image Image Ampl Phase Search Image Image<	Measure Analyse Data files Setup Review	Print Export Eoptic						Options			
Dewcesoft File export Flexpor MS Excel Clipboard Export Data presentation Channels Full speed data Relative time Search Image Image Ampl Phase Search Image Image Image Image Ampl Phase Search Image Image<											
Data presentation Channels Full speed data Relative time Search Read Read Imag Ampl Phase Search Read Read Imag Ampl Phase Export order Export order Export order Export order Ch. no Name Sampling Reta Data Settings 1 Yes AI 1 acc Synchronous 20000 Hz Ch. no Name Sampling Rate Data Settings 1 Yes AI 1 acc Synchronous 20000 Hz Ch. no Name Sampling Rate Data Settings 1 Yes AI 6 tacho Synchronous 20000 Hz Ch. no Name Sampling Rate Data 320 - Order tracking ScooterMotor coastdown 3 Yes Order tracking 1 (Order tracking) acc/Overal RMS Single value unknown Mata Setup 6 Yes Order tracking 1 (Order tracking) acc/Time domain Asynchronous 3,5 Hz Wes Order tracking 1 (Order tracking) acc/Ime domain Asynchronous											
Real Imag Ampl Phase Export order Export order Export order Export order Export order Ch. no Name Sampling III Rate Date Settings 1 Yes Al 1 acc Synchronous 20000 Hz Image Image 2 Yes Al 6 tacho Synchronous 20000 Hz Image Image 2 Yes Al 6 tacho Synchronous 20000 Hz Image Image 2 Yes Al 6 tacho Synchronous 20000 Hz Image Image Image 2 Yes Order tracking 1 (Order tracking) Speed Asynchronous 19,7 Hz Image											
Settings 1 Yes AI 1 acc Synchronous 20000 Hz Retain original channel names 2 Yes AI 6 tacho Synchronous 20000 Hz Export file name 3 Yes Order tracking 1 (Order tracking) Speed Asynchronous 19,7 Hz 320 - Ordertracking ScooterMotor coastdown 5 Yes Order tracking 1 (Order tracking) acc/Overall RMS Single value unknown Mai Setup 6 Yes Order tracking 1 (Order tracking) acc/Order waterfall Single value unknown Mai George gaps between triggers 6 Yes Order tracking 1 (Order tracking) acc/Order waterfall Single value unknown Mai Open application at the end 7 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Vec 9 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Vec 10 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Vec 11 Yes Order trackin	Full speed data V Relative time V	Search	٩	$\otimes \otimes \otimes$							
□ 1	Real Imag Ampl Phase	Export order	Exported	Ch. no	Name	Sampling 🔳	Rate	Data str.			
IRetain original channel names 3 Yes Order tracking 1 (Order tracking) Speed Asynchronous 19,7Hz Stop 1 4 Yes Order tracking 1 (Order tracking) acc/Overall RMS Single value unknown Ves Setup 5 Yes Order tracking 1 (Order tracking) acc/Order waterfall Single value unknown Mail Setup 6 Yes Order tracking 1 (Order tracking) acc/FFT waterfall Single value unknown Mail Ø Open application at the end 7 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ves 10 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ves 10 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ves	Settings	1	Yes	AI 1	acc	Synchronous	20000 Hz	Scal			
Export file name 4 Yes Order tracking 1 (Order tracking) acc/Overall RMS Single value unknown Veral 320 - Order tracking ScooterMotor coastdown 5 Yes Order tracking 1 (Order tracking) acc/Overall RMS Single value unknown Mathematical Single value unknown Veral Veral <td< td=""><td>Retain original channel names</td><td>2</td><td>Yes</td><td>AI 6</td><td>tacho</td><td>Synchronous</td><td>20000 Hz</td><td>Scal</td></td<>	Retain original channel names	2	Yes	AI 6	tacho	Synchronous	20000 Hz	Scal			
320 - Order tracking ScooterMotor coastdown 4 Yes Order tracking 1 (Order tracking) acc/Overall RMS Single value unknown Ves Setup 5 Yes Order tracking 1 (Order tracking) acc/Order waterfall Single value unknown Mat 6 Yes Order tracking 1 (Order tracking) acc/FFT waterfall Single value unknown Mat 6 Yes Order tracking 1 (Order tracking) acc/FFT waterfall Single value unknown Mat 7 Yes Order tracking 1 (Order tracking) acc/Order waterfall Asynchronous 19,7 Hz Ves 9 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ves 9 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ves 10 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Ves 11 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Ves	Event file name	3	Yes	Order tracking 1 (Order tracking)	Speed	Asynchronous	19,7 Hz	Scal			
Setup 5 Yes Order tracking 1 (Order tracking) acc/Order waterfall Single value unknown Mail Setup 6 Yes Order tracking 1 (Order tracking) acc/FFT waterfall Single value unknown Mail Ignore gaps between triggers 7 Yes Order tracking 1 (Order tracking) acc/FTT waterfall Single value unknown Mail Open application at the end 7 Yes Order tracking 1 (Order tracking) acc/Order waterfall Asynchronous 19,7 Hz Vestor Imply template [for custom analysis] 9 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Vestor 10 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Vestor 11 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Vestor		4	Yes	Order tracking 1 (Order tracking)	acc/Overall RMS	Single value	unknown	Vector			
6 Yes Order tracking 1 (Order tracking) acc/FFT waterfall Single value unknown Mat I Ignore gaps between triggers 7 Yes Order tracking 1 (Order tracking) acc/Order waterfall Asynchronous 19,7 Hz Ve Open application at the end 8 Yes Order tracking 1 (Order tracking) acc/Order waterfall Asynchronous 3,5 Hz Ve 9 Yes Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ve 10 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Ve 10 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Ve 11 Yes Order tracking 1 (Order tracking) acc/Order H22 Single value unknown Ve		5	Yes	Order tracking 1 (Order tracking)	acc/Order waterfall	Single value	unknown	Matrix (5			
Ignore gaps between triggers 8 Yes Order tracking) acc/Order waterfall Asynchronous 3,5 Hz Vec Open application at the end 9 Yes Order tracking) acc/Order H1 Single value unknown Vec Empty template [For custom analysis] 10 Yes Order tracking) acc/Order H16 Single value unknown Vec 11 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Vec		6	Yes	Order tracking 1 (Order tracking)	acc/FFT waterfall	Single value	unknown	Matrix (2			
Image: Solution of the end Solution and the end	C C Edit	7	Yes	Order tracking 1 (Order tracking)	acc/Time domain	Asynchronous	19,7 Hz	Vector			
Single value unknown Ves Order tracking 1 (Order tracking) acc/Order H1 Single value unknown Ves Empty template [for custom analysis] 10 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Ves Empty template FP6 [Prepared for custom analysis] 10 Yes Order tracking 1 (Order tracking) acc/Order H16 Single value unknown Ves Empty template FP7 [Prepared for custom analysis] 11 Yes Order tracking 1 (Order tracking) acc/Order H22 Single value unknown Ves		8	Yes	Order tracking 1 (Order tracking)	acc/Order waterfall	Asynchronous	3,5 Hz	Vector			
Empty template FP6 [Prepared for custom analysis] 10 Yes Order tracking acc/Order H16 Single value unknown Vec Empty template FP7 [Prepared for custom analysis] 11 Yes Order tracking acc/Order H22 Single value unknown Vec		9	Yes	Order tracking 1 (Order tracking)	acc/Order H1	Single value	unknown	Vector			
	Empty template [for custom analysis] Empty template FP6 [Prepared for custom analysis]	10	Yes	Order tracking 1 (Order tracking)	acc/Order H16	Single value	unknown	Vector			
		11	Yes	Order tracking 1 (Order tracking)	acc/Order H32	Single value	unknown	Vector			
Empty template FP9 [Prepared for custom analysis] 12 Yes Angle sensor math 1 (Angle sensor tacho/Trigger Synchronous 20000 Hz	Empty template FP9 [Prepared for custom analysis]	12	Yes	Angle sensor math 1 (Angle sensor	tacho/Trigger	Synchronous	20000 Hz	Scal			
Time graph P8 [Recorder with up to 8 channels] 13 Yes Angle sensor math 1 (Angle sensor tacho/Angle Synchronous 20000 Hz	Time graph analyse FP7 [Recorder with up to 8 channels and cursor]	13	Yes	Angle sensor math 1 (Angle sensor	tacho/Angle	Synchronous	20000 Hz	Scal			
Time graph FP8 [Recorder with up to 8 channels] 14 Yes Angle sensor math 1 (Angle sensor tacho/Frequency Asynchronous 28,0 Hz	Time graph PPo [Recorder with up to 8 channels]	14	Yes	Angle sensor math 1 (Angle sensor	tacho/Frequency	Asynchronous	28,0 Hz	Scal			

Image 14: Flexpro export tab

Excel (*.xls) - standard spreadsheet software (not useful for large amounts of data)

Export type					
Excel (*.xlsx)	~				
Data presentation					
Full speed data \checkmark Relative time	~				
6-W					
Settings					
Export setup to xml file Ignore gaps between triggers Export per channel					
Export async channels to highest rate					
Append type to channel name					

Image 15: Excel export tab

DIAdem (*.dat) - Powerful data analysis package for automotive industry. Diadem has an option to export certain groups of channels at specific sample rate, so the resulting data file is shorter. We can achieve this by de-selecting *Export all channel groups with full rate* and defining the rate for each channel group (PAD, CAN, GPS, Plugin and Math). If -1 is entered, the data will be exported at a full rate.

Export type							
DIAdem (*.dat)		~					
Data presentation							
Full speed data	Relative time	~					
Settings							
Export setup to xml file Ignore gaps between triggers Export per channel Export all channel groups with full rate							
PAD export rate	1	[Hz]					
CAN export rate	100	[Hz]					
GPS export rate	20	[Hz]					
Plugin export rate	100	[Hz]					
MATH export rate	-1	[Hz]					

Image 16: DIAdem format

Matlab (*.mat) - Common analysis and mathematics package.

Export type				
Matlab (*.mat)	~			
Data presentation				
Full speed data	✓ Relative time ✓			
Settings				
Export setup to xml Ignore gaps betwee Export per channel Generate Matlab name Channel name Channel index Channel descriptior Channel type	s from Up Down			
Trigger index format	Export precision			
Standard \checkmark	Auto detect 🗸 🗸			
Matlab export file format				
MATLAB 5.0 MAT-file	~			
Special Export (nee	ds installed Matlab)			

Image 17: Matlab format

Export precision can be selected from drop down list between Single and Double. Usually single precision is enough, but sometimes Matlab functions expect data in double precision. Please be aware that the amount of exported data will be doubled if this option is chosen and Matlab files can't axceed 2 GB. Matlab can also export each channel with separate time channel or exports all data with full speed if you manually set the export rate (Hz) to the maximum value. Resampler does the job of linear interpolation, hold or alias-free when exporting to <u>Custom sample rate</u>.

Universal file format 58 (*.unv, *.uff) - For import to 3D modeling and structural analysis software from different vendors.

Export type							
Universal file format 58 (*.unv,	Universal file format 58 (*.unv, *.uff) \sim						
Data presentation							
Full speed data V Rela	ative time 🛛 🗸]					
Settings							
Export setup to xml file Ignore gaps between triggers Export per channel Export header							
Export "Dataset"	In line 2 V	•					
Export "StartTime"	In line 3 ~	·					
Export "ChannelName"	In line 5 🗸 🗸	•					
File extension .unv .uff 							

Image 18: Universal file format

Famos (*.dat) - Famos file format export. Use channel colors can be checked to use <u>Dewesoft X</u> channel colors, otherwise default Famos color is chosen.

Export type		
Famos (*.dat)		~
Data presentation		
Full speed data \sim	Relative time	~
Settings		
Export setup to xml file Ignore gaps between trig Export per channel Use channel colors Export channel name and Show warnings Export measurement info Export asynchronous cha Export to one file Add trigger event numbe Export events Allow special characters i Remove whitespaces fro Run Famos at end of exp	d comment separate o fields annels with full sample er to channel name in names m channel name	e rate

Image 19: Famos file format

NSoft (*.dac, *.mdf) - NSoft file format

Image 20: NSoft file format

Text/CSV (*.txt, *.csv)- Delimited ASCII text file. With checked Export events also events will be exported in the text file.

Export type			
Text/CSV (*.txt, *	.csv)	~	
Data presentation			
Full speed data	∼ Relative tim	ie V	-]
Settings			
Export setup to Ignore gaps bet Export per chan	ween triggers		
Basic settings Ad	vanced settings		
File format .txt	Delimiter	Tab 🗸	
O.csv	Decimal separator	. ~	
_	Decimal places	Auto	
Use separate line for units			
Export header			
Export events			
Map discrete v	alues to caption		
Export time info Format Auto			
	Date in sep	arate colum	n

Image 21: Text and CSV file format

Sony (*.log) - Sony DAT recorder data format

Export type	
Sony (*.log)	~
Data presentation	
Full speed data V Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 22: Sony file format

RPCIII (*.rsp) - RCP III data format used for road load data analysis. Bufferlength field can be set to match the analysis capabilities. With large files larger buffer length is recommended. The buffer length should be multiple of 2, i.e. 256, 512, 1024 and so on.

Export type		
RPCIII (*.rsp)		\checkmark
Data presentation		
Full speed data	✓ Relative time	~
Settings		
Export setup to x Ignore gaps betw Export per channe	een triggers	
Points per frame	256	~
Points per group	2048	~
Data type	Small integer	~
Ch descriptor type	"ChName - ChComment"	~
Use full channel range for min/max limits		
Compatible with NCode		
	Inc	

Image 23: RCP II file format

Comtrade (*.cfg) - Comtrade data format for power analysis

Export type	
Comtrade (*.cfg)	~
Data presentation	
Full speed data \checkmark Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 24: Comtrade file format

CAN messages (*.csv, *.asc) - Tab delimited export of CAN messages for replay in demo mode.

Export type	
CAN messages (*.csv)	~
Data presentation	
Full speed data \checkmark Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 25: CAN messages file formats

ASAM MDF4 (*.mf4) -

Export type	
ASAM MDF4 (*.mf4)	\checkmark
Data presentation	
Full speed data \checkmark Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 26: MDF4 file format

Broadcast Wave Format (*.bwf) - Multi channel audio data format (available as custom export)

Export type	
Broadcast Wave Format (*.bwf)	~
Data presentation	
Full speed data \sim Relative time	~
Settings	
Export setup to xml file	
Ignore gaps between triggers	
Export per channel	

Image 27: Broadcast Wave Format file format

Export type	
EthDump (*.txt)	~
Data presentation	
Full speed data V Relative time	~
Settings	
Export setup to xml file	
Ignore gaps between triggers Export per channel	

Image 28: EthDump file format

Google earth KML (*.kml) - Export of GPS path to Google earth (available as custom export)

Export type	
Google earth KML (*.kml)	~
Data presentation	
Full speed data V Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 30: Google earth file format

HDF5 (*.hdf) -

Export type	
HDF5 (*.hdf)	~
Data presentation	
Full speed data	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 31: HDF5 file format

JSON Export (*.json)

Export type	
JSON Export (*.json)	~
Data presentation	
Full speed data	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	



S3 (*.s3t) -

Export type	
S3 (*.s3t)	~
Data presentation	
Full speed data \sim Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 33: S3 file format

Standard data file (*.dat) -

Export type		
Standard Data File (*.dat)	~	
Data presentation		
Full speed data V	Relative time \checkmark	
Settings		
Export setup to xml file Ignore gaps between trig Export per channel	gers	
File extension ● *.dat ○ *.sdf		

Image 34: Standard data file format

Technical Data Management (*.tdm) -

Export type				
Technical Data Management (*.tdm)				
Data presentation				
Full speed data V Relative time	~			
e				
Settings				
Export setup to xml file				
Ignore gaps between triggers				
Export per channel				
— · ·				
Trim comments from channel names				

Image 35: Technical data management file format

UNV Export (*.unv) -

Export type			
UNV Export (*.unv)	``````````````````````````````````````	~	
Data presentation			
Full speed data V	elative time	~	
Settings			
Export setup to xml file Ignore gaps between trigge Export per channel	ers		
Export header			
Universal file format 58b	b		
Export complex channel	s [e.g. Modal test]		
Export "Dataset"	Nowhere	~	
Export "Start Time"	Nowhere	~	
Export "ChannelName"	Nowhere	~	
File extention			
●.unv ○.u	ff		

Image 36: UNV file format

Wave (*.wav) - wave audio data format (available as custom export

Export type	
Wave (*.wav)	~
Data presentation	
Full speed data \checkmark Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 37: Wave audio data format

WFT (*.wft) - Nicolet file format (available as custom export)

Export type	
WFT (*.wft)	~
Data presentation	
Full speed data V Relative time	~
Settings	
Export setup to xml file Ignore gaps between triggers Export per channel	

Image 38: Nicolet file format

FileReplay - Export channels and use them as a replay file in a new <u>Dewesoft X</u> setup.

Dewesoft export

The procedure to export data file to new Dewesoft data files and select the exported time range was primary used to cut the files.

	umu	Q	D	ewesoft)	X - Data	file: Exa	mple_D	rive0	1.dxd			_		\times
	Measure	Analy	/se	Data files	Setup	Review	Print	Exp	ort				🔳 0	ptions
-¢-	_	Flee Pro			1									
Dewesoft	File export	-	MS Excel	Clipboard	Export									
Settings									Channels					
File extens	sion	dxd		\sim					Search	Q	\otimes \otimes			
Export file	name								Export order	Exported	Ch. no		Name	
Example_	Drive01							Ī	1	Yes	AI 4		GPSvel	
File directo	o ry			Existing	files				2	Yes			CNT 0	
🖃 c: 🛛			~	Example	Drive01.d	xd		7	3	Yes	CAN 0/#C2/0	ST	WH_ANGL	.E
C:\				Test.dxd					4	No	CAN 0/#C2/15	S	TWH_SIGN	N
🕞 Dew									5	No	CAN 0/#1A0/17		V_SPEED2	
🗁 Dat	а								6	No	CAN 0/#280/16		ENG_RPM	
									7	No	CAN 0/#288/24		V_SPEED	

Image 39: Dewesoft export

File extension - choose between *.dxd and *.dxz

Export file name - name of the exported file

File directory - name of the directory where the exported file to be saved; select with a double click from the drop-down list

Existing files - list of existing files that are the same type in the selected category

NOTE: After selecting the time range on the recorder display, entering export file name and selecting Export data button, only the acquired data for the selected range (and for all channels) will be exported to a new file.

Export to clipboard

Export data to Windows clipboard (or copy data to clipboard) allows pasting the data into another running application.

Dewesoft File export Flexpro MS Excel Clipboard Ex	port					
Data presentation	Channels					
Reduced data \checkmark Relative time \checkmark	Search	Q	$\otimes \otimes \otimes$			
Min Max RMS Average	Export order	Exported	Ch. no	Name	Sampling 🔳	Rate
	1	No	AI 4	GPSvel	Synchronous	100 Hz
	2	No		CNT 0	Synchronous	100 Hz
	3	No	CAN 0/#C2/0	STWH_ANGLE	Asynchronous	99,8 Hz
	4	No	CAN 0/#C2/15	STWH_SIGN	Asynchronous	99,8 Hz
	5	No	CAN 0/#1A0/17	V_SPEED2	Asynchronous	50,0 Hz
	6	Yes	CAN 0/#280/16	ENG_RPM	Asynchronous	50,0 Hz
	7	No	CAN 0/#288/24	V_SPEED	Asynchronous	50,0 Hz

Image 40: Export a channel to the clipboard

With this option the channels to export can be selected from displayed Channel list (at the bottom of the window).

Time (s)	ENG_RPM; MIN (rpm)
0	3483
0,5	3357
1	3247
1,5	3162
2	3098
2,5	
3	3009
3,5	3005
4	3019
4,5	3071

Image 41: Paste the data to another

program

Export to FlexPro and MS Excel

To enhance export data to Microsoft Excel and FlexPro, following procedures can be used:

- 1. Select application click on either FlexPro (ActiveX) or MS Excel (ActiveX) on Export option
- 2. Template management Template Management controls are only available for Microsoft Excel and FlexPro export
- option to manage template scripts, which are listed on central Postprocessing in FlexPro / MS Excel part of screen; templates can be created and changed or deleted
- 3. Select template (script) appropriate script should be selected from the list of available scripts
- 4. Import Flexpro (databases) MergeDB script allows the user to import existing FlexPro-Databases to the exported measurement data

If you click on either FlexPro (ActiveX) or MS Excel (ActiveX) on Export option, additional Template management controls in left bottom part of screen and list of available templates - scripts on central Postprocessing in FlexPro / MS Excelpart of screen are displayed:

MS Excel

A F 👼 🗄 🚺 🗸					
Dewesoft File export Flexpro MS Excel Clipboard Export					
Data presentation	Channels				
Reduced data V Relative time V	Search	Q	$\otimes \otimes \otimes$	\supset	
Min Max RMS Average	Export order	Export order	Exported	Ch. no	Name
Settings	1	1	Yes	AI 4	GPSvel
Export async channels to highest rate	2	2	Yes		CNT 0
Append type to channel name	3	3	Yes	CAN 0/#C2/0	STWH_ANGLE
Export file name	4	4	Yes	CAN 0/#C2/15	STWH_SIGN
Example_Drive01	5	5	Yes	CAN 0/#1A0/17	V_SPEED2
	6	6	Yes	CAN 0/#280/16	ENG_RPM
Setup	7	7	Yes	CAN 0/#288/24	V_SPEED
🛨 🕞 🖉 Edit	8	8	Yes	CAN 0/#380/16	GAS_PEDAL
Ignore gaps between triggers	9	9	Yes	CAN 0/#420/8	TEMP_OUTSIDE
Open application at the end	10	10	Yes	CAN 0/#4A0/1	WSPEED_FL
> Cpp	11	11	Yes	CAN 0/#4A0/17	WSPEED_FR
 Empty template [with only data available] Sound intensity report [Report for sound power measuremen 	12	12	Yes	CAN 0/#4A0/33	WSPEED_RL
	13	13	Yes	CAN 0/#4A0/49	WSPEED_RR
	14	14	Yes	CAN 0/#5A0/0	ACC
	15	15	Yes	Channel 0	Math 0

Image 42: MS Excel export

FlexPro

Image: Weight of the second					
Data presentation	Channels				
Reduced data \checkmark Relative time \checkmark	Search	Q	$\otimes \otimes \otimes$		
Min Max RMS Average	Export order	Exported	Ch. no	Name	Sampling 🔳
Settings	1	Yes	AI 4	GPSvel	Synchronous
Retain original channel names	2	Yes		CNT 0	Synchronous
Export file name	3	Yes	CAN 0/#C2/0	STWH_ANGLE	Asynchronous
	4	Yes	CAN 0/#C2/15	STWH_SIGN	Asynchronous
Example_Drive01	5	Yes	CAN 0/#1A0/17	V_SPEED2	Asynchronous
Setup	6	Yes	CAN 0/#280/16	ENG_RPM	Asynchronous
	7	Yes	CAN 0/#288/24	V_SPEED	Asynchronous
Ignore gaps between triggers	8	Yes	CAN 0/#380/16	GAS_PEDAL	Asynchronous
Open application at the end	9	Yes	CAN 0/#420/8	TEMP_OUTSIDE	Asynchronous
Empty template [for custom analysis]	10	Yes	CAN 0/#4A0/1	WSPEED_FL	Asynchronous
	11	Yes	CAN 0/#4A0/17	WSPEED_FR	Asynchronous
	12	Yes	CAN 0/#4A0/33	WSPEED_RL	Asynchronous

Image 43: Flexpro export

For both, Microsoft Excel and FlexPro export option you will see that a list of preformatted scripts appears in the center of the screen with two columns **Setup name** and **Description** of script. Now you should select from the list of available scripts. You can select any one of them and then click the Export data button below the format icons to perform the exporting. Don't forget to select the channels to be exported before you press the Export data button.

Template management - FlexPro and Excel scripts for data export

User of MS Excel and FlexPro can examine the preformatted scripts and macros that are loaded in the \Dewesoft\System\X2\Scripts subdirectory and learn how to create their own scripts for export.

NOTE: Please note that FlexPro and Excel export requires that these applications are already properly installed on the computer, or else the exporting will fail.

The concept is very simple: once the script is created, just load any data file and run the script. What happens next is a big time-saver. Dewesoft X runs this script:

- automatically starting the other application (you will see a notice on the screen that it is starting the other application, and there will be a slight delay as it does so and establishes communication)
- creates the dataset
- runs the script

Let's say that you have a script that takes four incoming signals, runs 3rd octave analysis on them, creates a polished looking report, complete with your company's title bar and logo, automatically puts in the data and other variables from the data file, and formats it for your color printer. After you click the Export button and this process runs, you will see your final report on the screen, and just need to click print to complete your report!

This is the power of "hot script" ActiveX data exporting from <u>Dewesoft X</u> to either MS Excel or FlexPro.

Typical FlexPro screen

🐥 Temp0000.fpd [Direct] - FlexPro Developer Suite				×
FILE EDIT RUN NEW VIEW DOCUMENT SELECTION DRAWING CURSO	R EXPLORER TOOLS	WINDOW ?		
🗅 🚅 🖯 🗊 🖃 🖕 ? - ? - 🐰 🗈 📋 💉 🛤 🗡 🗋 🚱 🕼 🥵	🖶 🙇 🔍 📃 🞰 😜	2	-	>>>
🔀 💵 🖬 🖽 🖂 🖃 🖉 🔸 🚸 π fx 🔬 🛲 🔂 🧰	- 12	- B / <u>U</u> x ² x ₂ = = =	>>>	»
Project Database: 'Temp0000' Data1 Results				
DEWESoft TM Devesoit worldwide www.devesoit.com				
······ #				
Signet D PAL =				
diga di seconda di sec				
tan isang ing tan isang ing tan isang ing t				
50grad 25d7 -				
Sould Partie				
Big-10 (Sector)				
2 μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ μ				
policite and the first of the state of the				
Folders v A X	Object List			Ψ×
Data1	Name	Comments	Туре	CI ^
Project Database: 'Temp0000'	Results		Document	28
🧧 Data1	2D Diagram		2D Diagram	28
Events	π File name		Formula	28
	π Start time		Formula	28
	π Number of channels π Sample rate		Formula Formula	28 28
	π Store type		Formula	28
	Events		Folder	28
	🖬 Data1		Folder	28
	🔫 Signal0	mic	Data Set	28
	Signal1	opto sonda	Data Set	28
	Signal2	Speed	Data Set Data Set	28
	Signal3	mic/Overall RMS mic/Order waterfall	Data Set Data Set	28 28
	Signal5	mic/FFT waterfall	Data Set	28
	Signal6	mic/Time domain_Ampl	Data Set	28
	Signal7	mic/Order H1 Amnl	Data Set	28 *
		₽ + + + + + + + + + + + + + + + + + + +	1 + + 2 111 5	> >
Ready		29.5 cm 3 cm	1/1 42	

Image 44: Typical Flexpro screen

Typical MS Excel screen

	А	В	С	D	E
1	Frequency [Hz]	AlphaSab (overall	AlphaSab (overa	AlphaSab (overall) []	AlphaSab (overall) []
2	250	0.14	0.04	0.08	0.38
З	315	-0.13	0.06	0.19	0.09
4	400	0.24	0.19	0.14	0.05
5	500	0.36	0.27	0.23	0.19
6	630	0.20	0.26	0.28	0.36
7	800	0.56	0.48	0.42	0.46
8	1000	0.63	0.72	0.74	0.70
9	1250	0.89	0.93	0.83	0.85
10	1600	0.76	0.79	0.78	0.95
11	2000	0.97	0.98	0.94	0.90
12	2500	0.95	0.92	0.97	0.92
13	3150	1.02	1.06	1.13	1.01
14	4000	1.08	1.08	1.00	0.89
15	5000	0.92	0.92	1.03	1.05
16	6300	1.16	1.12	1.08	1.19
17	8000	1.00	1.00	1.24	0.95
18	10000	0.71	1.00	0.88	1.18
19			Alaba		
20			Alpha		
21	1.40				
22	1.20				
23	1.00		~		
24	0.80				
25	0.60	/			
26	0.20				
27	0.00				
28	250			2500	
29					1

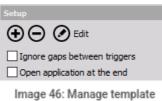
Image 45: Typical MS Excel screen

MS Excel export function knows about Excel's built-in limitation of 65536 rows per worksheet. If your data is longer than that, it simply creates multiple-worksheets within the workbook. It also makes a simple chart with the first several thousand data points for each input channel shown. You can use all of MS Excel built-in tools to change the chart format and make additional calculations and graphical outputs. But please be aware that MS Excel is not intended to handle million of data points.

Template management controls

You can easily create your own scripts in MS Excel or FlexPro, or edit the existing ones.

Just press the New template button to create a new one or Edit template to change an existing script.



buttons

To delete an existing script simply select it and press Delete template button.

When you press New template button, you have to enter a setup name, a description and a comment for the new script.

Add new temp	late	—	\times
Description in e	xport screen		
Setup name	Description		

Image 47: Add new template

When you confirm your entries click on **Process** button or selct **Edit** button to change an existing script; MS Excel or FlexPro will automatically start with currently selected template.

NOTE: For more details about creating scripts please refer to the original MS Excel or FlexPro documentation.

Export multiple files

If you want to export several files at once, there is a nice function available. Press the Analyse button to enter the file explorer. Select all files you want to export.

		Q	De	wesoft											_		\times
	Measure	Analyse	Da	ata files	Setup	Review										≡ c	ptions
ŀ	[]			0	_	¢-	AVI I	-			Abe	9	7				
Import	Multifile expor	rt Apply action	Use	e for meas	ure Reve	rt to orig	AVI compress	s Post-sync. video	L	.oad	Rena	ame Dele	ete	Сору	Cut	Paste	
Folders		~ ₩	Sea	arch		۹											
🔡 🚺 Da	ta		+		File name		Size	Start store time	e	Sample	r		Ch	nannels		Store	mode
			•	Example_	Drive01.d	lxd	1,3 MB	09/10/2003 23:27	:46	100 Hz		AI: 1, Math	nOld: 1	l, CAN: 20, G	PS: 5,	always fast	t
			•	Measuren	nent_01.d	lxd	507 kB	03/06/2020 15:50	20	5000 H		AI: 8, Math	n: 4, E	vent log: 1		always fast	t
			•	Measuren	nent_02.d	lxd	497 kB	03/06/2020 15:50	:32	5000 H		AI: 8, Math	n: 4, E	vent log: 1		always fast	:
			•	Measuren	nent_03.d	lxd	497 kB	03/06/2020 15:50	:41	5000 H	z	AI: 8, Math	n: 4, E	vent log: 1		always fast	t
			•	Test.dxd			1,8 MB	03/06/2020 14:08	:24	40000	Hz	AI: 8, DI: 8	3, Mat	n: 4, DAQ Ou	t: 1	fast on trig	ger

Image 48: Multifile export

There are two possibilities to mark several datafiles (similar to Windows Explorer):

- to mark several files which are listed near to each other, keep the Shift button pressed during selection,
- to mark several files picked out of the list, keep the Ctrl button pressed during selection.

After all files to export are marked, select Multifile export from the menu.

NOTE: Only the files that were created with exactly the same setup file can be exported as multi file.

Now the Export multi file window appears:

🔺 Export multi file				_	- 0	×
Dewesoft File export						
File directory	Export type					
🖃 c: [🛛 🗸 🗸	Flexpro (*.fpc) ~				
🕞 C:/	Data export	Full speed data	~			
C Dewesoft	Complex expor	t Real Ampl	Imag Ph	nase		
	Time axis	Relative time	~			
	Export setu					
	Overwrite e	single Flexpro file				
Exported channels Export setup						
Channels						
Search Q 🛞 🔗 🛇)					
Export order Ex 🔳 Ch. n	D	Name	Sampling 🔳	Rate	Data str	· ·
1 Yes AI 1		AI 1	Synchronous	5000 Hz	Scalar	
2 Yes AI 2		AI 2	Synchronous	5000 Hz	Scalar	
3 Yes AI 3		AI 3	Synchronous	5000 Hz	Scalar	
4 Yes AI 4		AI 4	Synchronous	5000 Hz	Scalar	
5 Yes AI 5		AI 5	Svnchronous	5000 Hz	Scalar	> ×
				Export	t C	ancel

Image 49: Export multi file

This window allows you to select:

- Dewesoft export type or File export type
- File directory part of windows select destination of exported data
- Export file type, described in the chapter above.
- Data export Full speed data, Reduced data: Min, Max, RMS and/or Average type can be selected by checking the appropriate box
- Time axis relative, absolute or trigger time type

Press the Export button to start the export process or Cancel to leave without exporting the files.

Note: the export keeps the original file names for the exported files is the checkbox is marked.

Retain original channel names

Multi files can also be exported to Dewesoft data file format.

🔺 Export mu	lti file				_	
	- •					
Dewesoft File	export					
Dewesoft expor	t					
Export to *.	dxz					
File directory						
🖃 c: 🛛		~				
🗁 C:\						
Dewesoft						
Config						
Exported chann	els					
Channels						
Search	Q	\otimes \otimes				
Export order	Exported	Ch. no	Name	Sampling	Rate	Data str. \land
1	Yes	AI 1	AI 1	Synchronous	5000 Hz	Scala
2	Yes	AI 2	AI 2	Synchronous	5000 Hz	Scala
3	Yes	AI 3	AI 3	Synchronous	5000 Hz	Scala
4	Yes	AI 4	AI 4	Synchronous	5000 Hz	Scala 🗸
				Exp	port	Cancel

Image 51: Dewesoft multi export

Export instrument display to video

A new way of presenting data is the multimedia documentation. <u>Dewesoft X</u> offers the possibility to export any widget like scope, recorder, 2D graph... to a video, which can be replayed in any video player.

Select Export screen to AVI from the Edit menu and the following Export screen to AVI file window will appear:

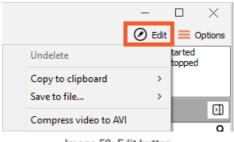


Image 52: Edit button

Output file(s)	に、Pewesoft \Pata \Example drive.EXPOR	\odot
⊗ Compression		
Compression direct / raw / uncompressed		0
⊗ Video / image properties		
Resolution	800x600	~
Frame output control	Static - from frame rate	\sim
Frame rate	10	~
Play speed	1x	~
⊙ Sound		
Sound channel	<none></none>	~

Image 53: An export screen to video file

According to your requirements, you can change the export settings on this window. The following settings can be changed:

- File name and storage path select folder and file name
- · Compression DivX codec or similar is recommended. Press the Change button and the window will appear for

selecting standard compression codec from the drop-down list and for configuring them.

- Resolution from 640x480 to 1920x1080 selectable from drop down list high resolution will create larger files!
- Frame output control
- Frame rate from 1 to 60 standard video player can not handle faster data; select from drop down list:
- Play speed perfect for slowmotion (from 1/2x to 1/10000x real time) or fast overview (from 1x to 5000x real time); select from drop down list
- Sound channel select from drop down list one of the available analog channels to be your audio channel

When you have done all the needed changes press the **Export** button to start the export or **Cancel** to leave without exporting the video.

The export progress will be displayed in an Export screen to AVI file window.

When <u>Dewesoft X</u> has completed the export (depending on data and compression, this can take several minutes) you can open the exported file in a standard video player.



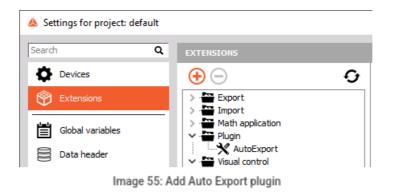
Image 54: Replay the measurement in the third-party video player

Automatic export of data

Dewesoft X offers a possibility to automatically export the data into a selected file format.

If you don't have the AutoExport plugin under Extensions it can be downloaded from the <u>download webpage</u>. For adding or updating the extensions in Dewesoft follow <u>this webpage</u>.

Under Extensions (Settings -> Extensions) first, click the + button to add the AutoExport plugin.



Search for AutoExport and enable it:

🝐 Manage ext	ensions			
Show disabled	Show enabled	Show all		
auto		۲		
🛛 Plugin				
AutoExport				G
Automatic export	with stop storing.			

Image 56: Enable Auto Export plugin

After that, the plugin icon will be seen in the channel setup. In the plugin, you select to which format the data are exported and where to:

Store Save	Save as Storing	Math	AutoExport	More	Remove			
Export file type on s Flexpro (*.fpd) Timestamp type : Data type : Reduced data option :	relative real	CA Export fi		stop storir o CA Math a	-			
Output folder : Select If you enter a valid export type, data acquired in DEWESoft will be exported to the chosen export type after storing is stopped. The file name will be equal to the name of the DEWESoft data file. If such a file already exists, an additional index will be added to the new file name. CA data can be exported additionally. Data types allowed depends on Export file type, e.g. Flexpro supports all at once, Excel only 1 type. Notes: The export type and options are stored with the Setupfile. If stored reduced only, export option "Data type" has no relevance. Export file type specific options are used as last set. CA data can be exported additionally. Data types allowed depends on Export file type, e.g. Flexpro supports all at once, Excel only 1 type								
	Ima	ge 57: Auto export s	ettings					

NOTE: If the auto export option is enabled, the export type and options are stored in the setup file.