

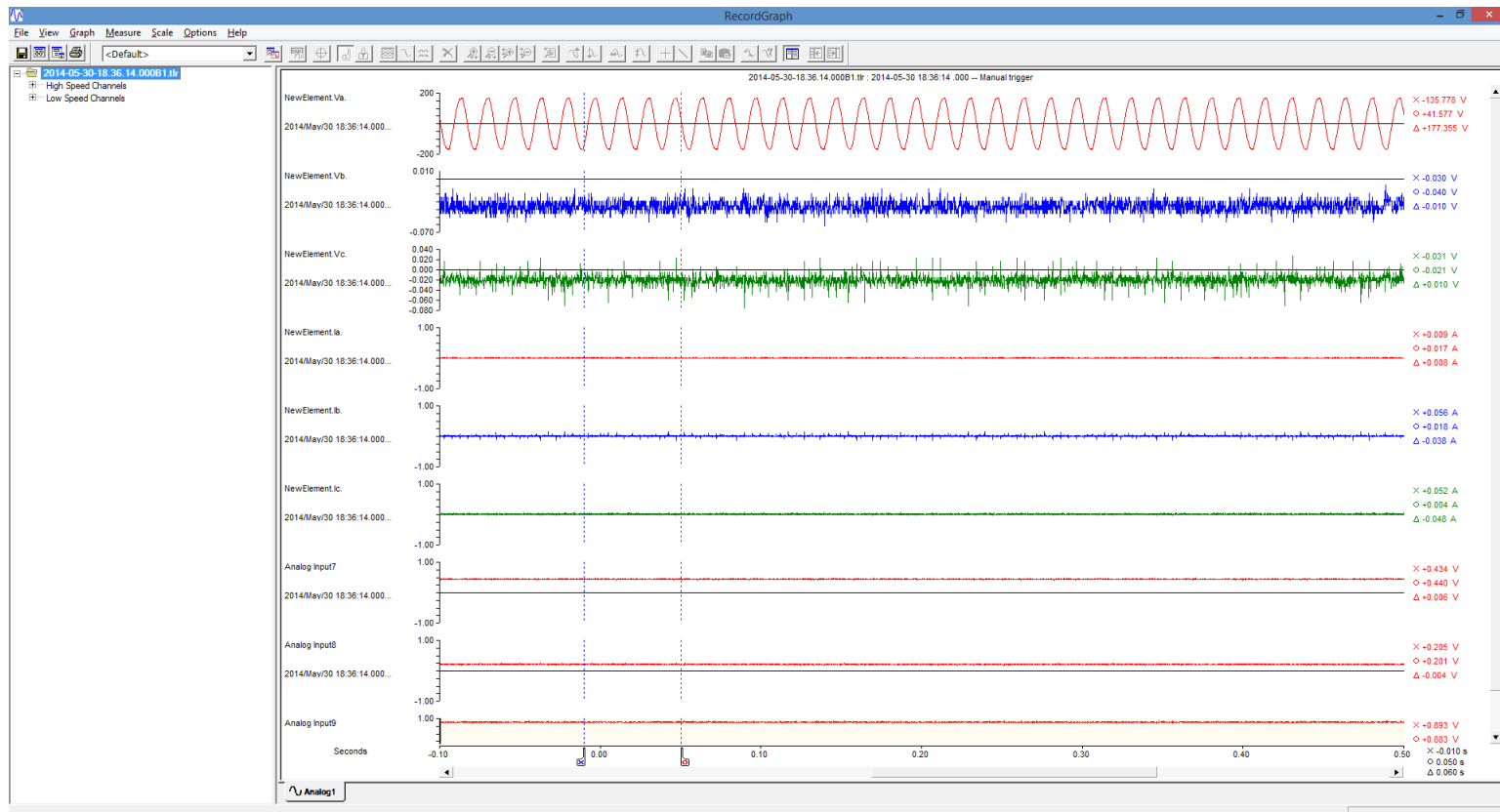


# Exporting Records to COMTRADE Using RecordGraph App Note

# Exporting Records in COMTRADE



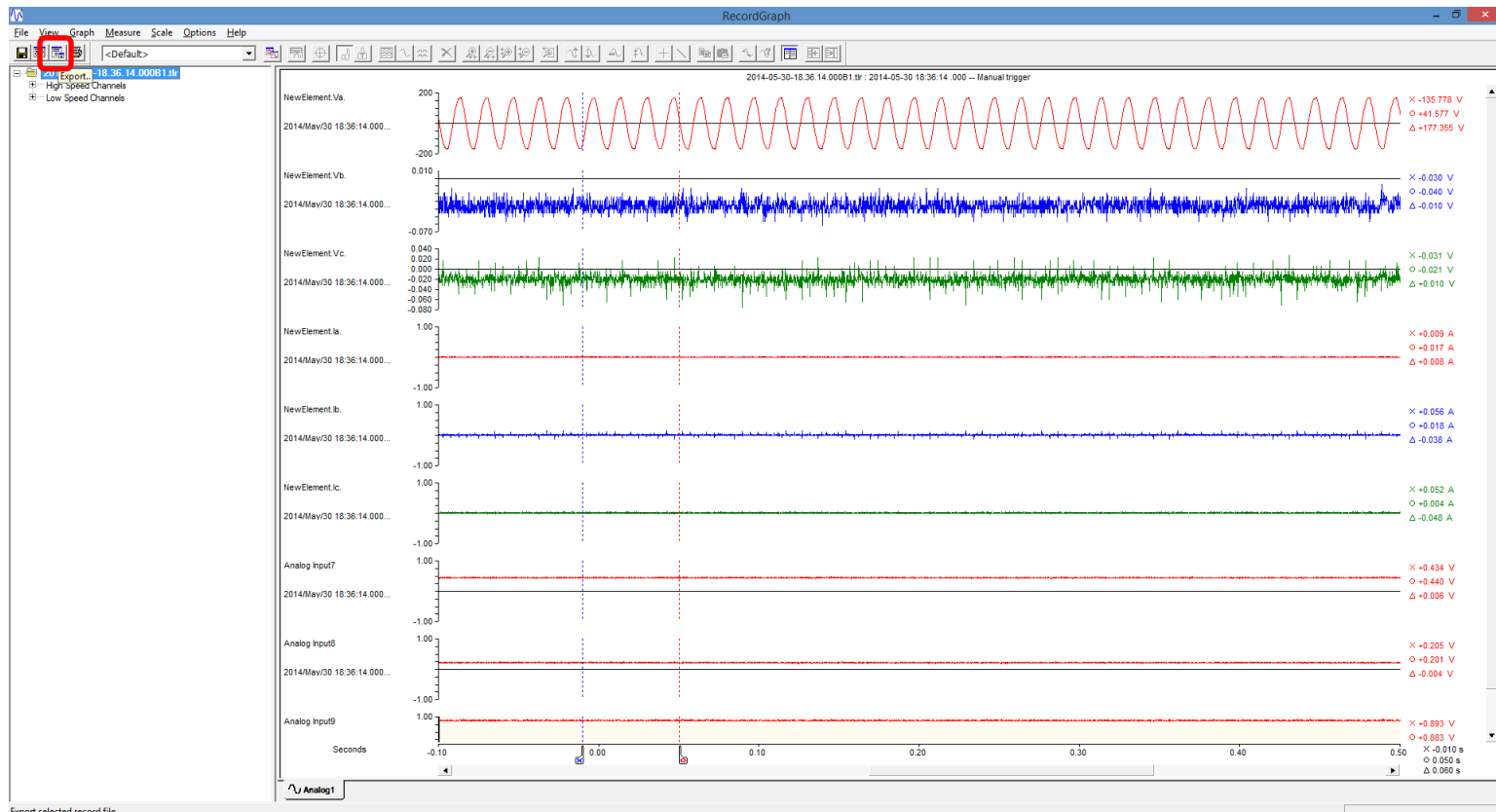
From RecordGraph window



# Exporting Records in COMTRADE



Click on 'Export' button

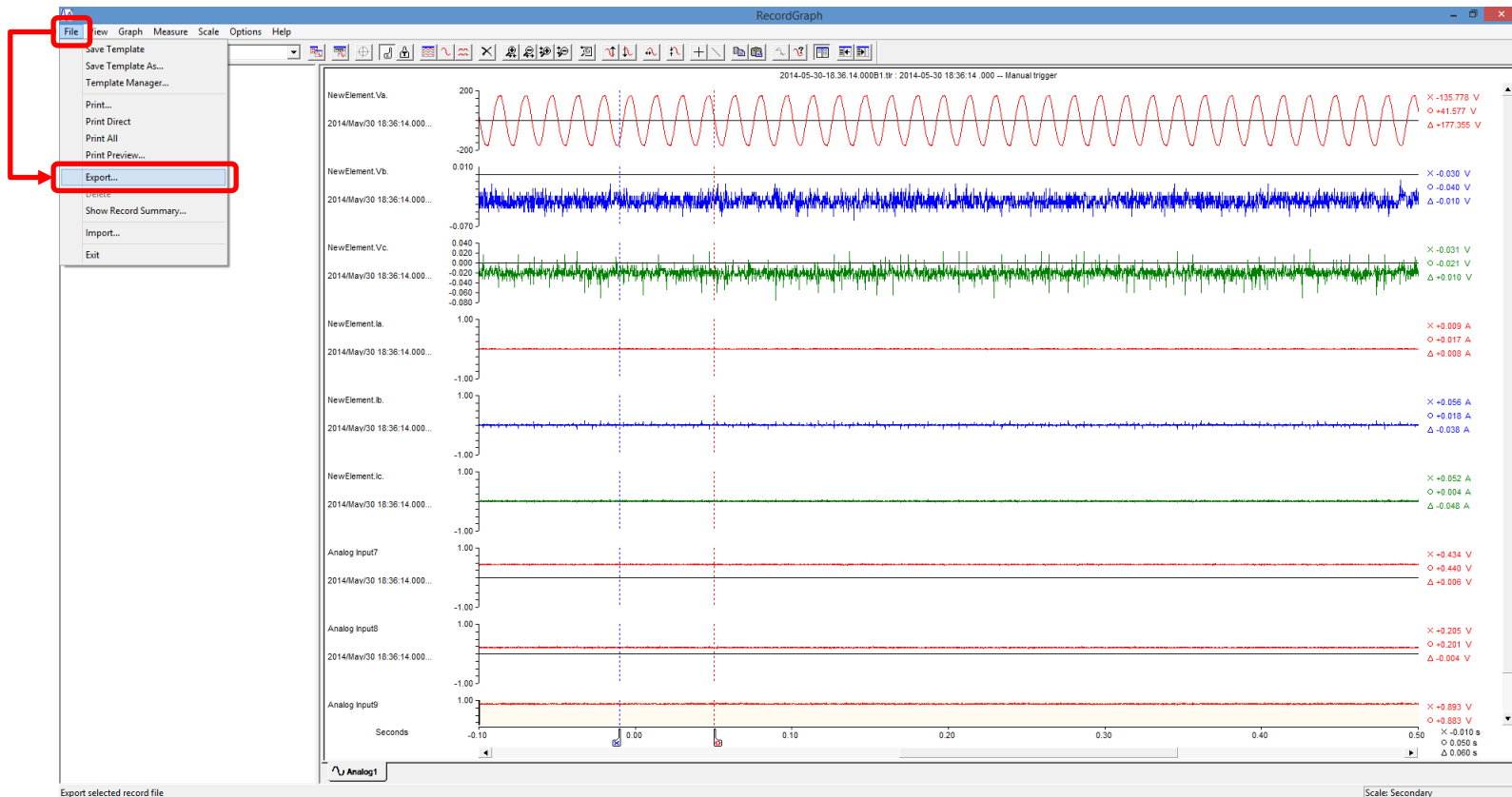


Export selected record file

# Exporting Records in COMTRADE



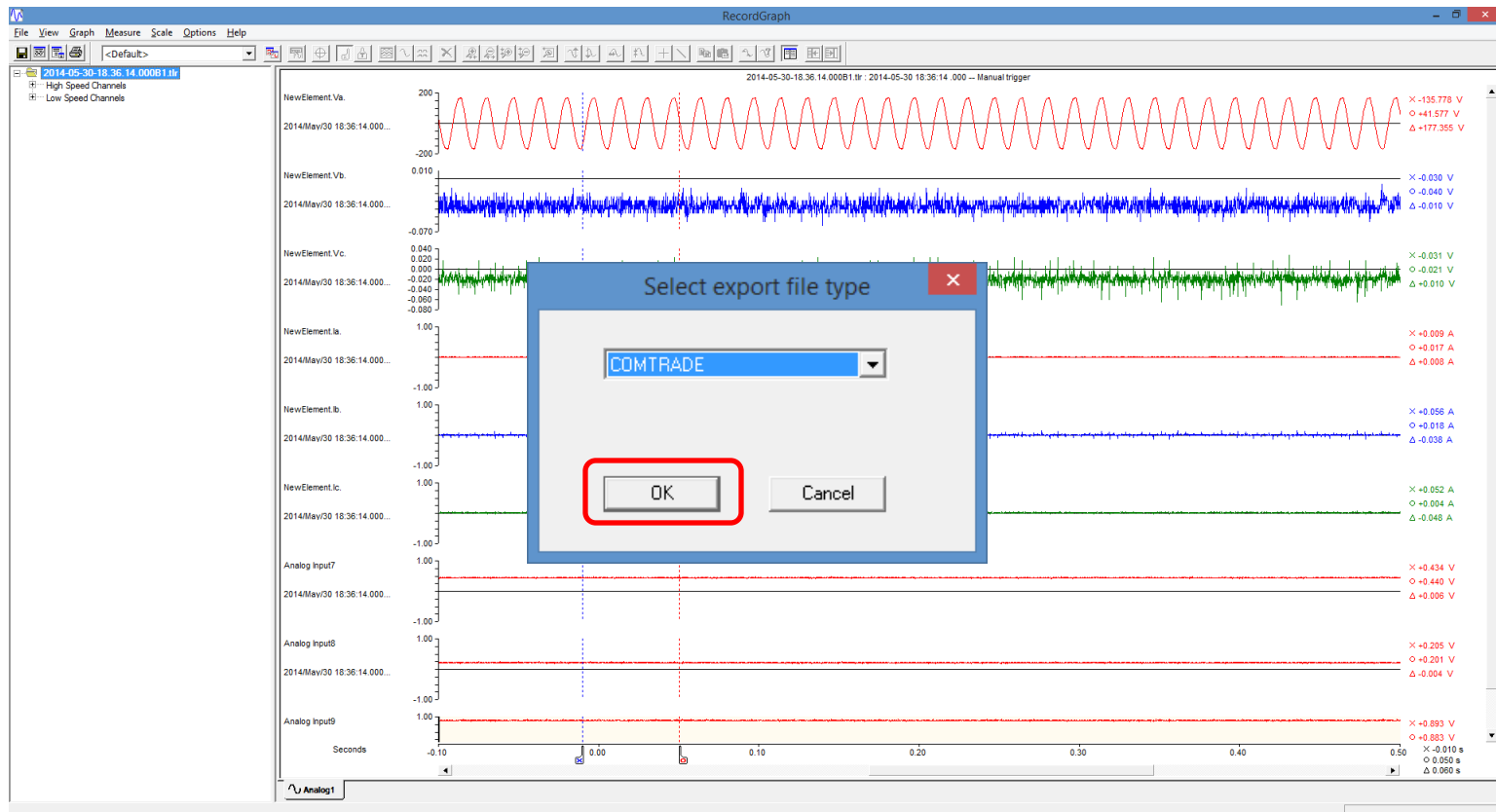
Or select it from 'File'



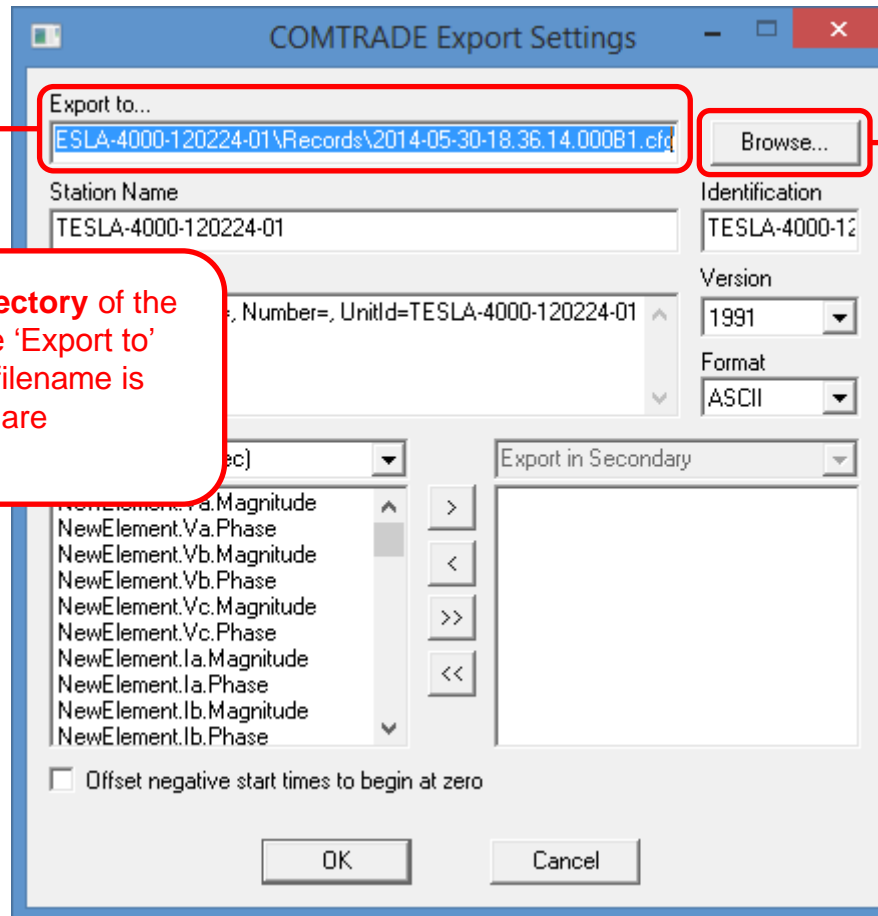
# Exporting Records in COMTRADE



Select 'COMTRADE' as export file type



# Exporting Records in COMTRADE



The **base filename** and **directory** of the output files are set using the 'Export to' option. By default the base filename is the same as the record you are exporting.

The **base filename** can be edited or use the Browse button to set a new **directory** and/or **base filename**.

# Exporting Records in COMTRADE



The image shows a screenshot of the 'COMTRADE Export Settings' dialog box. The 'Export to...' field contains the path 'ESLA-4000-120224-01\Records\2014-05-30-18.36.14.000B1.cfg'. The 'Station Name' field is set to 'TESLA-4000-120224-01' and the 'Identification' field is set to 'TESLA-4000-120224-01'. The 'Header Text' field contains 'Location=, Name=, Number=, UnitId=TESLA-4000-120224-01'. The 'Version' dropdown is set to '1991' and the 'Format' dropdown is set to 'ASCII'. The 'Export in Secondary' field is empty. The 'Offset negative start times to begin at zero' checkbox is unchecked. The 'OK' and 'Cancel' buttons are at the bottom.

The **Station Name** and **Identification** fields are set by default using information from this recorder. They are written as the first line in the '.cfg' output file.

# Exporting Records in COMTRADE



The image shows a screenshot of the 'COMTRADE Export Settings' dialog box. The 'Header Text' field is highlighted with a red box and contains the text: 'Location=, Name=, Number=, UnitId=TESLA-4000-120224-01'. Other fields include 'Export to...' (ESLA-4000-120224-01\Records\2014-05-30-18.36.14.000B1.cfg), 'Station Name' (TESLA-4000-120224-01), 'Identification' (TESLA-4000-120224-01), 'Version' (1991), and 'Format' (ASCII). There are also dropdown menus for 'Low Speed (60/sec)' and 'Export in Secondary', and a list of fields to export with arrows. 'OK' and 'Cancel' buttons are at the bottom.

The Header Text field contains the text written into the COMTRADE header (.hdr) file. By default, the field contains the **Location**, **Name**, **Number** and the **Unit ID** of the unit that produced the record. This text can be modified, deleted or extended as desired.



# Exporting Records in COMTRADE

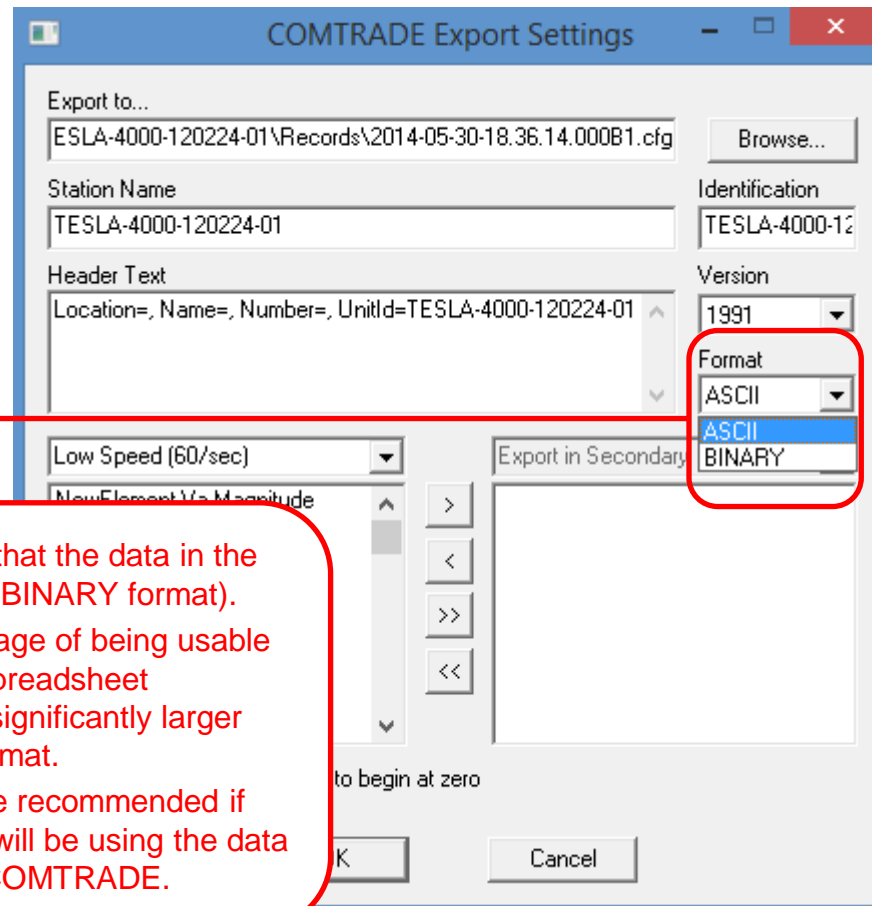


The image shows a screenshot of the 'COMTRADE Export Settings' dialog box. The dialog has a blue title bar and a white background. It contains several fields and controls:

- Export to...:** A text box containing the file path 'ESLA-4000-120224-01\Records\2014-05-30-18.36.14.000B1.cfg' and a 'Browse...' button to its right.
- Station Name:** A text box containing 'TESLA-4000-120224-01'.
- Identification:** A text box containing 'TESLA-4000-12'.
- Header Text:** A text box containing 'Location=, Name=, Number=, UnitId=TESLA-4000-120224-01'. To its right is a 'Version' dropdown menu with a red border. The dropdown is open, showing three options: '1991' (selected), '1999', and 'ASCII'.
- Low Speed (60/sec):** A dropdown menu.
- Export in Secondary:** A dropdown menu.
- Offset negative start times to begin at zero:** A checkbox that is currently unchecked.
- Buttons:** 'OK' and 'Cancel' buttons are located at the bottom of the dialog.

The Version field lets you select the revision of COMTRADE standard to produce. COMTRADE has been an evolving standard and a number of changes have been made over the years. **1991** and **1999** COMTRADE versions are supported.

# Exporting Records in COMTRADE

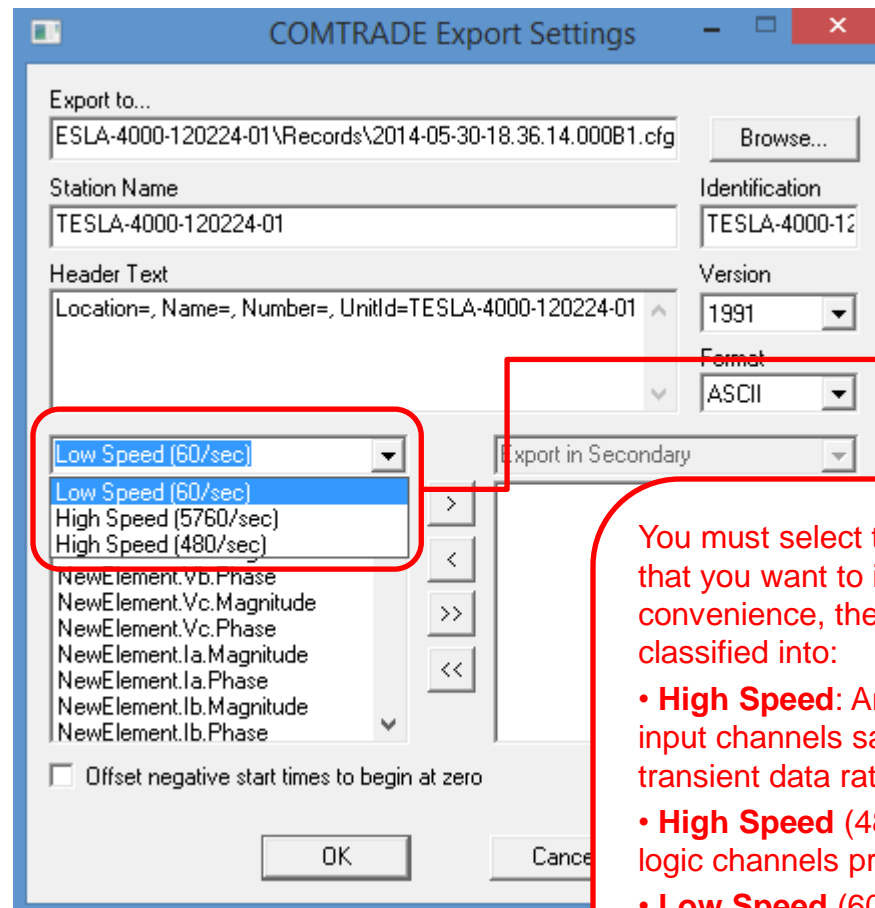


The Format field specifies that the data in the COMTRADE file (ASCII or BINARY format).

**ASCII** data has the advantage of being usable by simple text editor and spreadsheet programs, but results in a significantly larger record relative to binary format.

**BINARY** format is therefore recommended if the software package you will be using the data in supports binary format COMTRADE.

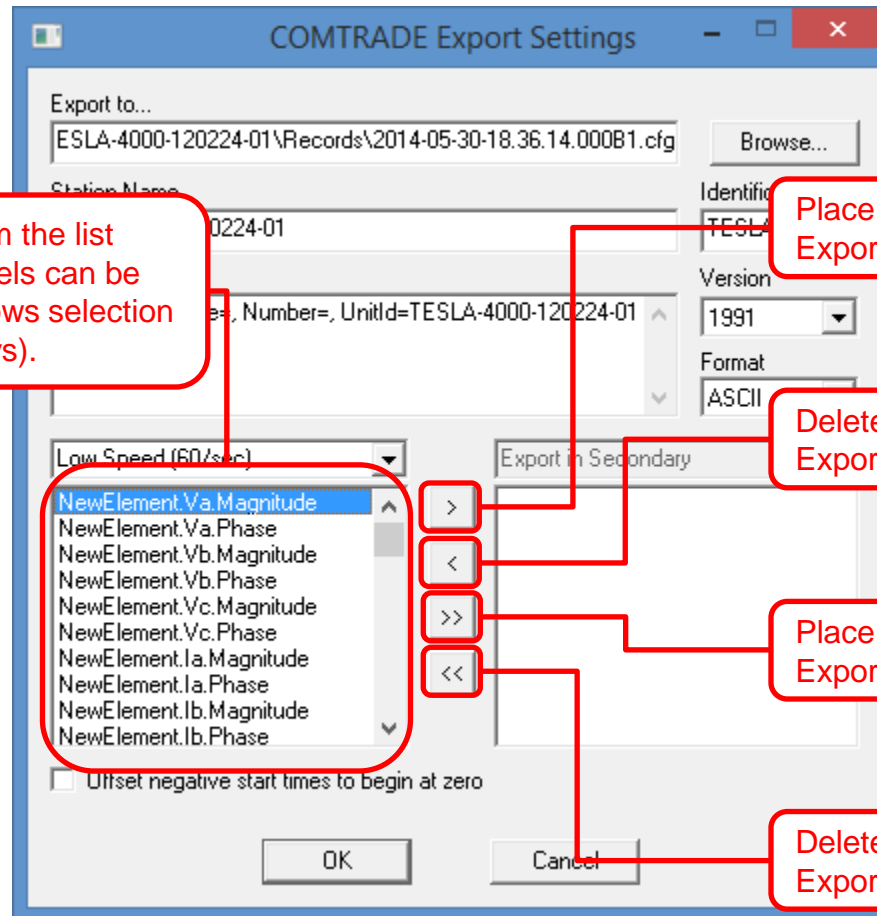
# Exporting Records in COMTRADE



You must select the channels from the record that you want to include in the output file. For convenience, the digital data recorded is classified into:

- **High Speed:** Analog and external digital input channels sampled at the high speed transient data rate.
- **High Speed (480/sec):** Analog and internal logic channels produced 8 times per cycle.
- **Low Speed (60/sec):** Analog input channels sampled at the low speed swing data rate.

# Exporting Records in COMTRADE



Select the desired channel from the list with a left-click. Multiple channels can be selected using standard Windows selection actions (click + Ctrl or Shift keys).

Place selected channels in the Exported Channels list box.

Delete a channel from the Exported Channel list box.

Place all channels into the Exported Channels list box.

Delete all channels from the Exported Channel list box.

# Exporting Records in COMTRADE



The image shows a screenshot of the 'COMTRADE Export Settings' dialog box. The window title is 'COMTRADE Export Settings'. The 'Export to...' field contains the path 'ESLA-4000-120224-01\Records\2014-05-30-18.36.14.000B1.cfg'. The 'Station Name' is 'TESLA-4000-120224-01' and the 'Identification' is 'TESLA-4000-120224-01'. The 'Header Text' is 'Location=, Name=, Number=, UnitId=TESLA-4000-120224-01'. The 'Version' is set to '1991' and the 'Format' is 'ASCII'. The 'Low Speed (60/sec)' dropdown is set to 'Low Speed (60/sec)'. The 'Export in Secondary' dropdown is set to 'Export in Secondary'. A list of elements is shown in the middle, including 'NewElement.Va.Magnitude', 'NewElement.Va.Phase', 'NewElement.Vb.Magnitude', 'NewElement.Vb.Phase', 'NewElement.Vc.Magnitude', 'NewElement.Vc.Phase', 'NewElement.Ia.Magnitude', 'NewElement.Ia.Phase', 'NewElement.Ib.Magnitude', and 'NewElement.Ib.Phase'. At the bottom, the checkbox 'Offset negative start times to begin at zero' is checked. A red callout box points to this checkbox with the text: 'When checked, this option shifts the negative time to start from zero.' The 'OK' and 'Cancel' buttons are at the bottom.

COMTRADE Export Settings

Export to...  
ESLA-4000-120224-01\Records\2014-05-30-18.36.14.000B1.cfg

Station Name  
TESLA-4000-120224-01

Header Text  
Location=, Name=, Number=, UnitId=TESLA-4000-120224-01

Identification  
TESLA-4000-120224-01

Version  
1991

Format  
ASCII

Low Speed (60/sec)

Export in Secondary

NewElement.Va.Magnitude  
NewElement.Va.Phase  
NewElement.Vb.Magnitude  
NewElement.Vb.Phase  
NewElement.Vc.Magnitude  
NewElement.Vc.Phase  
NewElement.Ia.Magnitude  
NewElement.Ia.Phase  
NewElement.Ib.Magnitude  
NewElement.Ib.Phase

Offset negative start times to begin at zero

OK Cancel

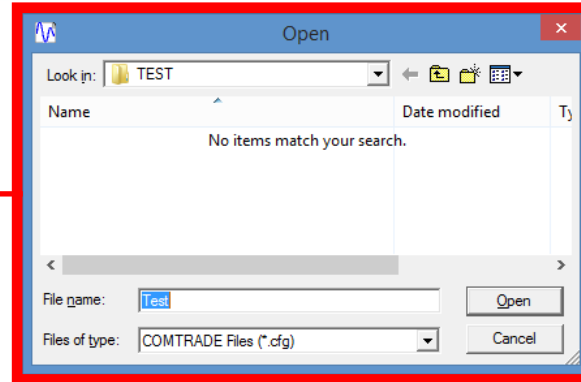
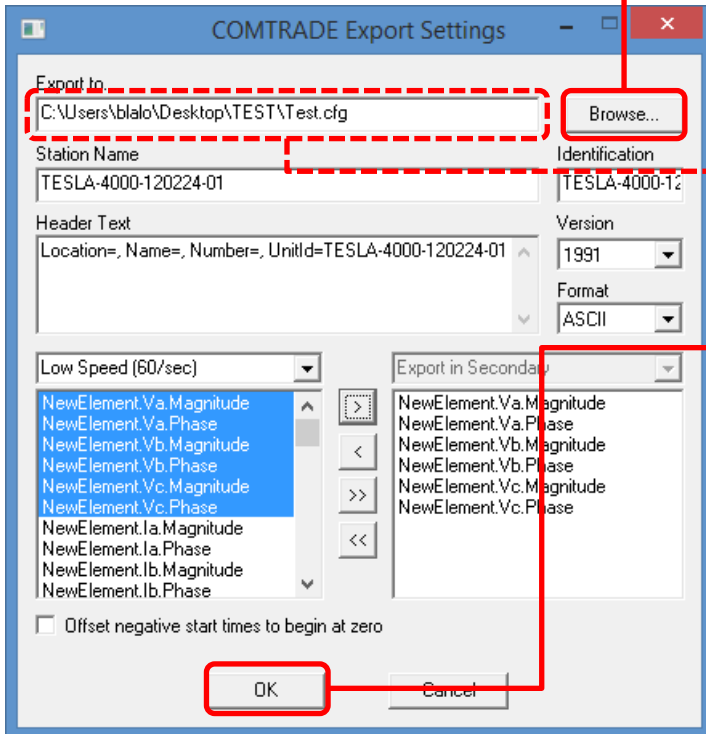
When checked, this option shifts the negative time to start from zero.

# Exporting Records in COMTRADE

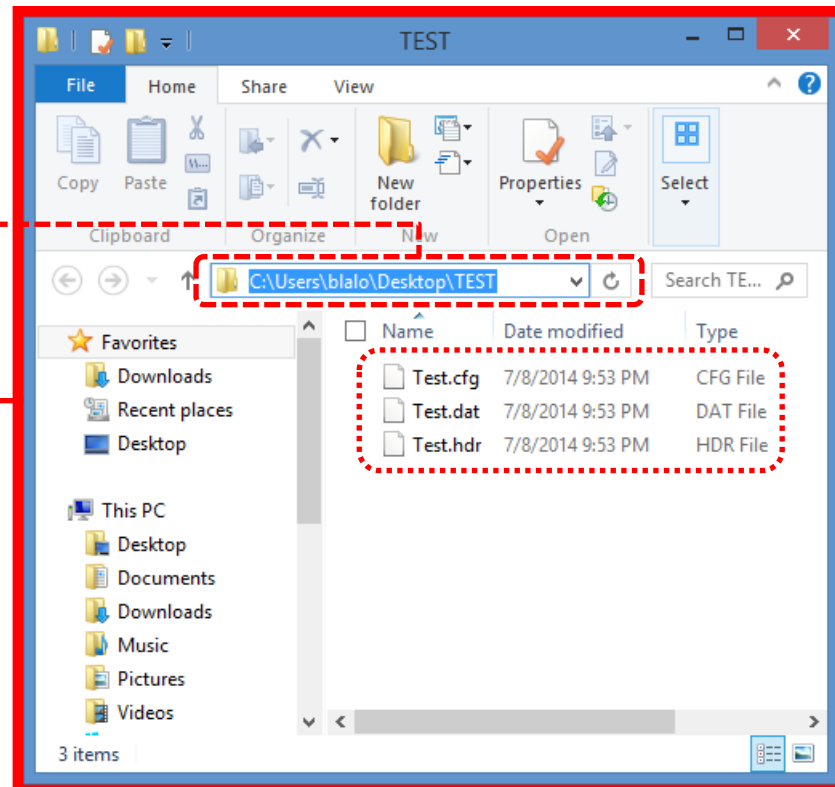


## Example

2. Select settings to create the COMTRADE file, including the channels.



1. Choose the **directory** of the output files and the **file name**.



3. The **output files** exported in COMTRADE are created.

If you need any further assistance,  
please contact

**ERLPhase Customer Service**

at

**+1 204-477-0591**

or

[support@erlphase.com](mailto:support@erlphase.com)