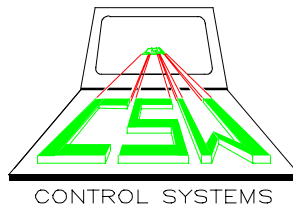


TREND DATA EXTRACTION (TDE) USER MANUAL



by

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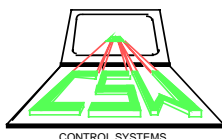
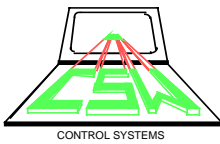


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010 INTRODUCTION

Trend Data Extraction (TDE) is a program designed for extracting archived Citect trend data stored on a disk drive or a CDROM. The extracted data will be saved to a or DBASE file, which can be viewed in Microsoft Excel speed sheet. The user can request the trend data of a given period and the program allows up to 8 trend tags to be selected for each data extraction operation

011 Overview of the Extracted Trend Data

The extracted trend data is stored as a text or DBase file depending on user's requests. The anticipated output data format is described as follows:

- Each selected trend tag contains two fields in the output file.
- The first field stores the time stamp against each trend data and the second fields stores the data value of the logged trend.
- Records in the output file are sorted in time order; starting with the user specified starting data and ending with the user specified end period with the sample period as the time difference between records.
- The trend data field will show a string "N/A" if no data is found for a given period.

020 HARDWARE AND SOFTWARE REQUIREMENTS

021 Hardware requirement

It is anticipated that the TDE program will run effectively on the following minimum hardware configuration:

- 80466DX-33MHZ
- 16 Mbytes RAM
- 60 Mbytes HDD space
- Monitor
- Mouse
- Keyboard

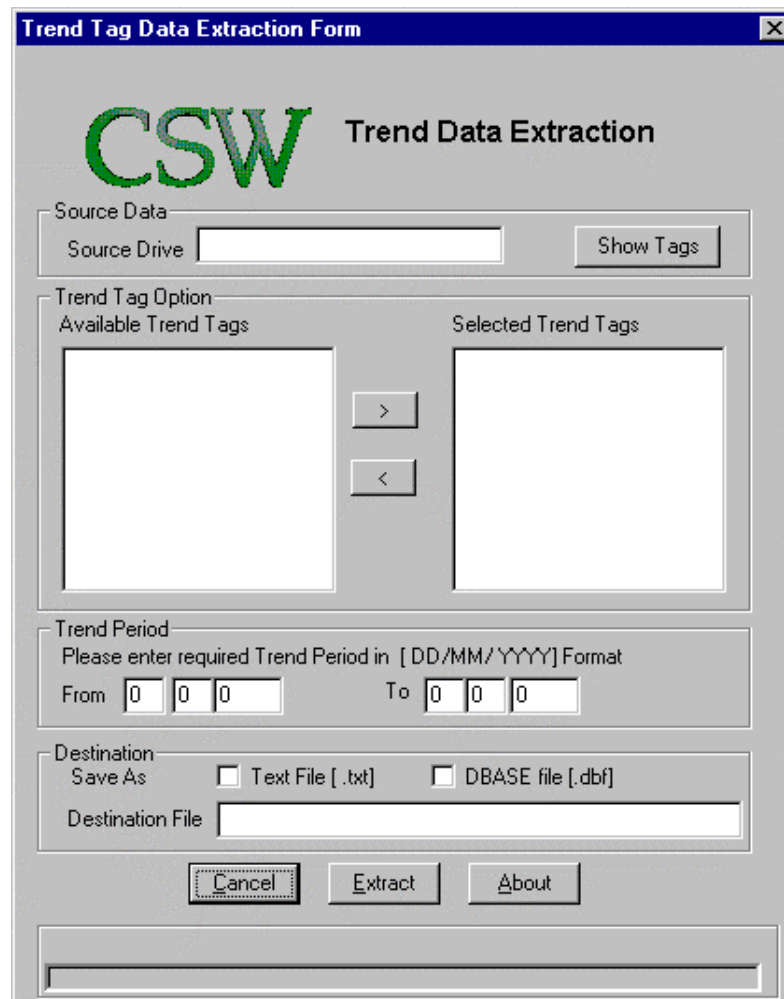
022 Software requirement

The TDE program is developed to run with the following software

- Microsoft Window 95 or Window NT
- The TDE executable file

030 SET UP AND RUNNING THE TREND DATA EXTRACTION APPLICATION

TDE is a stand-alone application, which requires no installation procedure prior to run the application. To run the application, double click the TDE icon. Figure 1 shows the Trend Data Extraction Form.



The screenshot shows the 'Trend Tag Data Extraction Form' window. It features the CSW logo and the title 'Trend Data Extraction'. The form is organized into several sections: 'Source Data' with a 'Source Drive' text box and a 'Show Tags' button; 'Trend Tag Option' containing two list boxes, 'Available Trend Tags' and 'Selected Trend Tags', with right and left arrow buttons between them; 'Trend Period' with a prompt 'Please enter required Trend Period in [DD/MM/YYYY] Format' and 'From' and 'To' date pickers; and 'Destination' with radio buttons for 'Text File [.txt]' and 'DBASE file [.dbf]', and a 'Destination File' text box. At the bottom are 'Cancel', 'Extract', and 'About' buttons.

Figure 1 Trend Data extraction Form

040 PROCEDURE FOR EXTRACTING TREND DATA

The steps required in extracting trend data are listed as follow:

1. Specify the source drive where the trend data can be found.
2. Select the trend tags from the available list for data extraction.
3. Specify the desire trend period.
4. Specify the format of the output file.
5. Specify the destination location and file.
6. Start the data extraction.

041 Specify the source drive

The user needs to enter the source drive and path where the trend information is currently stored. Once the source drive has been entered. Clicks the show tags button to search for all the available trend tags in the specified drive.



Figure 2 Enter the Source drive

042 Select Trend tags

The system allows up to 8 difference trend tags to be selected for each data extraction.

- The user can select a tag name by either highlighting the desired tag from the available list box the click the “>” button or simple double click the highlighted tag. The selected tag name will appear on the selected list box.
- To de-select a tag name , double click the tag name from the selected list or click the “<” button.

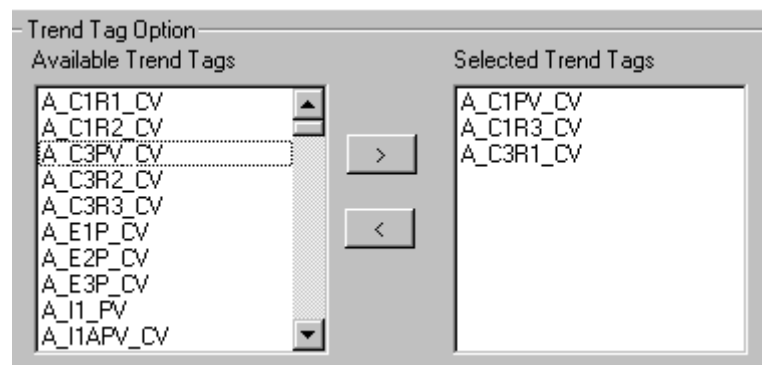


Figure 3 Selecting Trend Tags

043 Specify the trend extraction period

The date format of trend period is in [DD/MM/YYYY] or [DD/MM/YY]. An error message will be prompted if an invalid date format is entered.

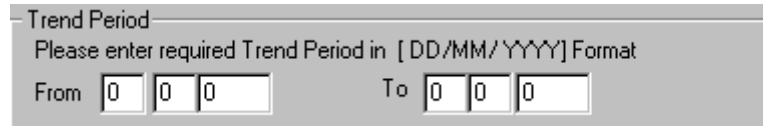


Figure 4 Specifying Trend Extracting period

044 Specify the format of the output file

By default, the output file will be saved as an ASCII file format. The user can select the output as Dbase file by clicking the Dbase file check box.

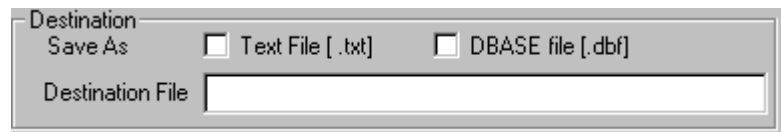


Figure 5 Selecting Output file format

045 Specify the Destination path and file name

The user needs to enter the path and file name where the output file will be stored. The system will confirm the user decision before overwrite existing destination file.

046 Start extracting the trend data

Once all the required information has been entered, the user clicks the extract button to start the data extraction. The time required for each extraction may vary depending on the requested trend period and the sample period of each trend data. A progressing bar shows the progress of the extraction. A completion message will be pop up once the operation has completed.

050 TREND DATA EXTRACTION VERSION INFORMATION

The about dialog shows the current information of the TDE application and the contract information for support and maintenance. To view the version information, click the about button.

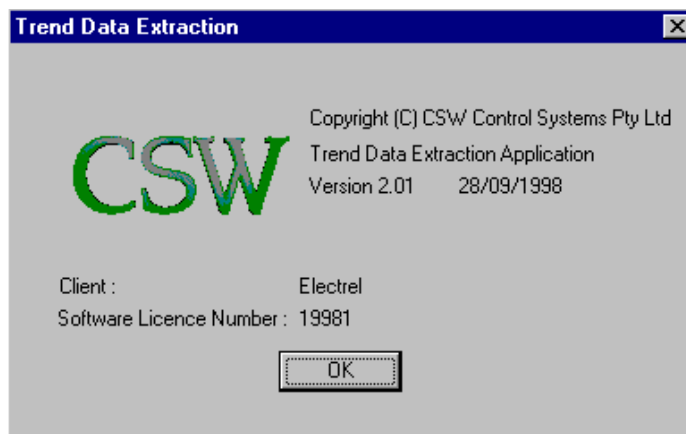


Figure 6 TDE About dialog Box

060 TERMINATE THE TREND DATA EXTRACTION APPLICATION

To terminate the execution of the Trend Data Extraction program, click the cancel button.