Question:

Usage:

Within Signal Generator of Experiment Environment the user can import customized signals.

The contained signal data can be in one of the following formats:

- HIL API Stimulus File (*.sti)
- Measurement Data File (*.dat)
- LABCAR Stimulus File (*.lcs)
- MATLAB® mat-File (*.mat)
- ETAS Stimulus File (*.esti)

This document deals with importing signal data using MATLAB® mat-files.

Required: Any MATLAB® Version higher than R2007b has to be installed to import mat-files.

Answer:

How it works:

1. A MATLAB® instance is created via COM.
2. Get the information regarding the contents of file by executing MATLAB® command matfile.
3. Load the matfile into MATLAB® workspace.
4. Get data from MATLAB® workspace to EE via COM.

Mat-File Format:

The signal data in the mat-file has to be in one of the following formats :

Row Format:

- Each signal should have only one row with signal values.
- There should be a variable named "Intervals / Repeat" , which has time stamp information of all the signals in mat-file.
- The time stamps are stored as difference between intervals.

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Example:

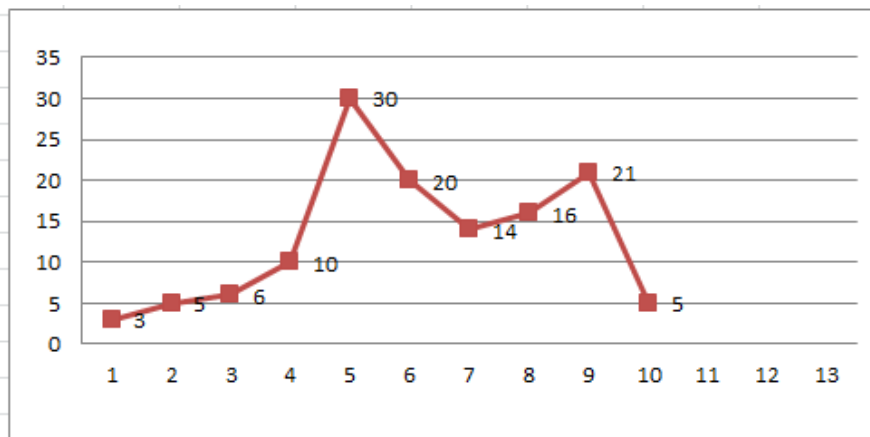| Intervals/ Repeat	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Signal1_Values	3	5	6	10	30	20	14	16	21	5
Signal2_Values	5	21	16	14	20	30	10	6	5	3
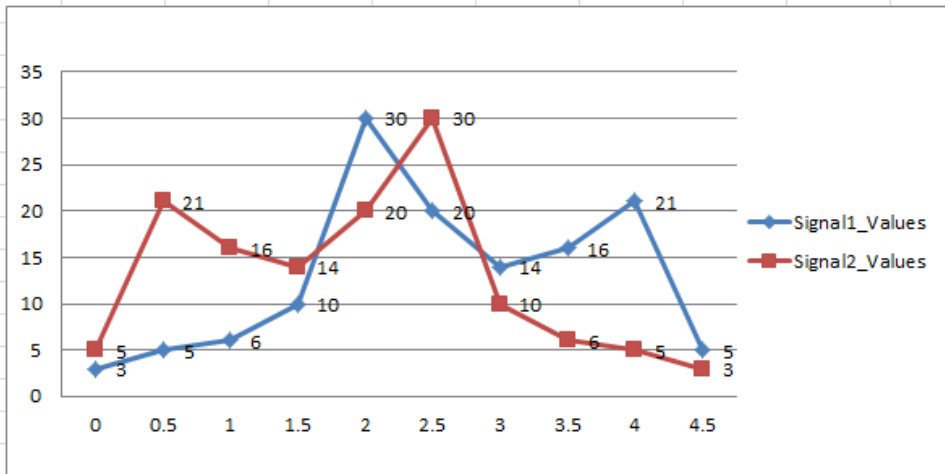
Column Format:

For each signal data matrix

- The number of columns must be 2.

- The first column should contain time stamps.

- The second column should contain values of the signal.

Example:

Time Stamp	Values
1	3
2	5
3	6
4	10
5	30
6	20
7	14
8	16
9	21
10	5

 Additional information:

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In case of further questions:

You will find further FAQ here: www.etas.com/en/faq

Please feel free to contact our Support Center, if you have further questions.

Here you can find all information: http://www.etas.com/en/hotlines.php