

eFACTS Data Refiner

More Information
[eFACTS Data Refiner Version History](#)

1 Introduction

The eFACTS Data Refiner is a tool used by test leaders to perform a first analysis and refinement on the measurement data before it is made available to the test requester.

2 Definitions

2.1 Measurement

- A measurement is started automatically when the logger system starts.
- A measurement consists of one or several events.
- A saved measurement is represented in the logger by two files, MEA_####.ZIP and LOG_####.ZIP where #### is the sequential number.

2.2 Event

- An event consists of one trigger start/stop activation.
- Every time the button is pressed an event is started.

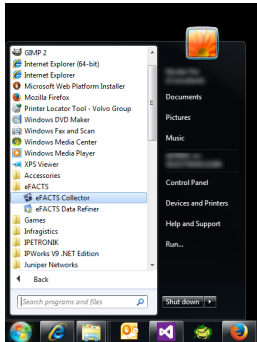
2.3 Event Status

The possible event statuses are:

- New/unfinished
 - Needs to be handled by the test leader or will otherwise be deleted 30 days after it was first recorded in the logger system.
- Discarded
 - The event is considered as irrelevant by the test leader or
 - The event is an autotraffic measurement (e.g. Safety) and is handled automatically by the eFACTS services.
- Check-in Pending
 - The event has been handled by a test leader and is marked as ready to be checked-in.
- Checked-in
 - The event have been completely handled and persisted into the database.
- Loaded from database
 - A checked-in event uploaded from the database.

3 Startup

The application can easily be started by pressing the windows start button, where it is found in the eFACTS folder, in "All Programs".



4 Measurements

When you first open the eFACTS Data Refiner, no data is loaded and only a few menu options are available.

4.1 Measurement Menu

The measurement menu is used to manage measurements in the Refiner.

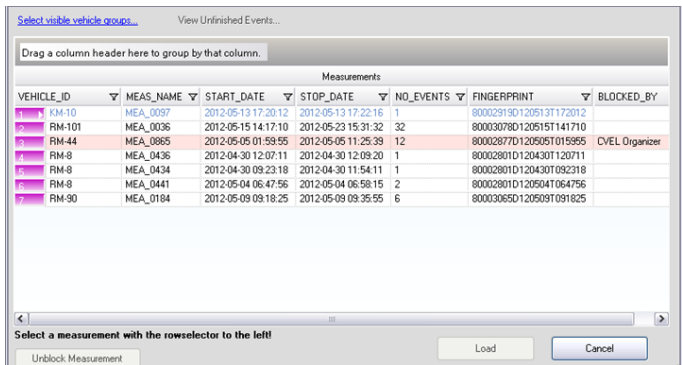


From left to right:

- Load Meas: Opens the dialog for loading a measurement, see "Loading a Measurement" for more information.
- Load From Db: Opens the dialog for loading events from the database, see "Loading Events from the Database".
- Pending Check In: Checks in all pending events.
- UDS Viewer: Will be used to check SW/HW versions of the truck.
- Add Comment: Add a comment to the loaded measurement, visible in the Load Meas dialog.

4.1.1 Loading a Measurement using Load Meas

To load a measurement, click the Load Meas button in the measurement menu to open the dialog.



- Click on "Select visible vehicle groups..." to select and show you vehicles (LYS, GOT etc).
- Select a measurement in the list and click "View Unfinished Events..." to show unfinished events from the vehicle connected to that measurement.

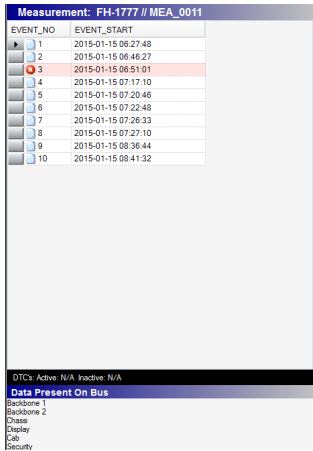
- If you select a measurement that is blocked, a popup will be shown. If you are the originator, you can unblock the measurement yourself. Otherwise contact an administrator or the eFACTS Support.
- To load a measurement, click it in the list and press the Load button.
- To group the list by some column value, just drag-and-drop the column header in the area above the grid.
- To filter the result by a column, click the filter icon in the column header.
- To sort the list, click a column header. **Filtering and sorting will be saved into to your user settings and will be applied automatically on next run of the eFACTS Data Refiner.**
- It can take up to **one hour** for your measurement to become available in the eFACTS Data Refiner depending on server load.

4.2 Event List

When a measurement is loaded, the main window is updated. In the left section of the window, information about the measurement is shown. In the header the name of the vehicle and the measurement is displayed.

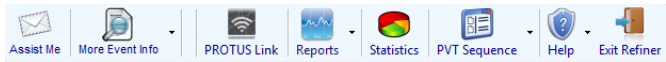
Further down, the events of the measurement are listed with two columns: The event number (EVENT_NO) and the event start date and time (EVENT_START).

Below the list of events information about recorded CAN buses are displayed (these are extracted from the first event in the measurement only).



5 Events

5.1 Event Menu



5.1.1 Assist Me

Opens the dialog for getting help from troubleshooters, without using PROTUS.

5.1.2 More Event Info

View additional data about the event, like the GPS position in Google Maps.

5.1.3 PROTUS Link

Used to generate a link to be used in PROTUS reports.

5.1.4 Reports

PVT reports generation. May be used to get an overview of a specific truck and SW package.

5.1.5 Statistics

Global information about eFACTS.

5.1.6 PVT Sequence

Used to connect an event to a PVT test case.

5.1.7 Help

Complete documentation and mail to eFACTS support.

5.1.8 Exit Refiner

Unblocks the current measurement and exits the program.

5.2 Event Information

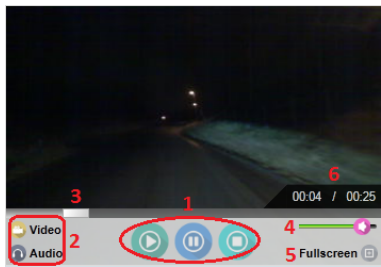
5.2.1 Meta Data

In the upper right section of the main window, event information is displayed as a list of meta data keys and values.

- Trigger Type: Auto Trigger or Manual Trigger (button pressed by driver)

5.2.2 Video and audio playback

If any video or audio files are present for the selected event, you can view and listen to them in the video player. The latest version of the video player has support for playing video and audio synchronized if synchronization information is present (not available for measurements before 2014-12-19).



Controls:

1. Playback Controls: Play, Pause, Stop
2. Switches to toggle video/audio on/off. If there is no synchronization information available, video and audio cannot be enabled simultaneously. If media cannot be sync, the text "No sync" is displayed.
3. Slider showing the current position in the media timeline. The slider can be dragged to any position in the timeline.
4. Volume Control: Slide to the right to increase the volume. The default volume is at 50%.
5. Button to enter or leave fullscreen mode.
6. Time showing the current position and the total length of the media timeline.

There are also some additional keyboard shortcuts:

- Space: Toggle play/pause.
- Escape: Leave fullscreen mode.

5.3 Editing Keys

The possibility to connect additional meta data to the events is a crucial part of the eFACTS system. The area for adding keys

The possibility to attach additional data used in the events is a crucial part of the eFACTS system. The data in binding keys to an event is located in the lower right section of the main window.

Keys

Vehicle Identification Number	2142-000051
Test Object ID	124-59
Event Start	2012-05-13 17:20:12
Protus ID	< Mandatory Key >
Test Leader	< Mandatory Key >
Test Type	< Mandatory Key >
Occurrence	< Mandatory Key >
Protus Points	< Mandatory Key >
SW_Release	5.2RT9
Truck Function	< Mandatory Key >

Test Object: Vehicle Key:

Comments:

Select As Check In Pending

Include ☐ Audio ☐ Video

Discard Event

Key Valid For All Events

Key Valid For Selected Events

Comments Valid For All Events

Several of the keys are mandatory, and has to be filled in before checking in the event.

Some of the keys are fetched from the vehicle logger binding that is connected to the measurement.

To mark an event as check in pending, optionally check the boxes to include audio and video and the click the "Select As Check In Pending".

Click "Key Valid For ... Events" to copy-paste the keys into other events in the measurement. **Be careful when adding keys, since everything is recorded.**

Keys are lost when leaving, comments are always stored.

5.3.1 PROTUS ID

The PROTUS ID of the report where the data will be used.

- Check casing, should be uppercase: L# # #, not l# # #.
- No spaces before or after the L# # # number.
- Do not add any additional zeros.
- Several events can be linked to the same PROTUS report.

5.3.2 Test Leader

The test leader responsible for the vehicle during the test.

5.3.3 Test Type

Field Test, PVT, AET, RT etc.

5.3.4 Occurrence

Rarely, Once, Often or Every Time

5.3.5 PROTUS Points

- 100 - A very severe fault that will cause:
 - unplanned stop/breakdown
 - mission abort
 - a safety risk
 - inability to start
- 25 - A severe fault that will demand actions before next planned service.
- 5 - All customers will notice the fault, but accept that actions can wait until next planned service.
- 1 - A minor fault that only some customers will notice.

More about PROTUS, please see: [PROTUS instructions](#)

5.3.6 SW Release

a.b.c (e.g. 5.4.A, 5.3.RT9...)

5.3.7 Truck Function

The truck function related to the fault. Shown in a customized selector, where the possible options are filtered by the vehicle product class. So only the functions that are available in your vehicle will be shown. If you are missing any function(s), please contact the eFACTS Support.

TRUCK_FUNCTION_AREA

Parts Unit

Battery Management

Bodybuilder

Cab

Chassis

Driving

Information And Control

Light

Powertrain

Safety

Telemechanics

Unknown

The complete truck function list can be found under Help -> Truck Functions in the main menu.

Help

Exit Refiner

Open Help...

Truck Functions...

Contact Support

5.4 PROTUS Link

5.4.1 Create a PROTUS Link

- The PROTUS link created will be based on the PROTUS ID that was entered as the PROTUS key value.
- Protus GUID, L123456.txt - Notepad

File Edit Format View Help

[This is a link to the eFACTS DATA search engine covering data for PROTUS ID: L123456
http://cvelprod.got.volvoo.net/Default.aspx?ProtusGUID=a95fcc83-58d0-41b4-a583-fb0227de5f5e
[Link copied to clipboard]]
- The http link is already in the clipboard and can now be paste into the url-link (folder Documents) in PROTUS The link needs to be created only once for each PROTUS report. If the same issue has already been detected in the truck, just select the correct report number in the PROTUS ID Key. (When engineering later clicks on the link, all the different logged events for that PROTUS will appear.)
 - The PROTUS link will not work until you have "Checked In" the pending events to the database.

5.4.2 Add the Link in PROTUS

Link name: Link:

Uploaded By	Uploaded Date	Link Name
Thommy Karlsson	2016-10-12	L112078

Number of Links: 1

- Link name: Use the same value as the PROTUS report ID, e.g. L112078
- Link: Enter the link URL from the eFACTS Refiner, e.g. <http://cvelprod.qot.volvonet/Default.aspx?ProtusGUID=a95fcc83-58d0-41b4-a583-fb0227de5f5e>

Click "Upload Link" to add the link to the PROTUS report. If you click the link, you will reach the eFACTS web page, where the data is available for download.

CVEL Data System
Version 3.0

AboutHelpClose

Measurement data

	Path name	Comments	Audio	Video
<input type="checkbox"/>	FM-318/FM-318D/10/10/12/705525		N	N
<input checked="" type="checkbox"/>	FM-318/FM-318D/10/10/12/705525	Several functions running, ignition off key out	N	N

File to download: Zip file structure
☒ Analyzer: ☐ With subfolder for each event
☐ Audio: ☐ All files in same folder
☐ Video:

Download
More Details

Path name	Keys
FM-318/FM-318D/10/10/12/705525	Vehicle Identification Number: JA-899931 Test Object ID: FM-318 Event Start: 2016-10-12 08:58:25 Protus ID: L112078 Test Leader: Thommy Karlsson Test Type: PVT E2E Function: Vehicle Modes Application Occurrence: Other