

# VECTO FF

05/2020



## Release Notes

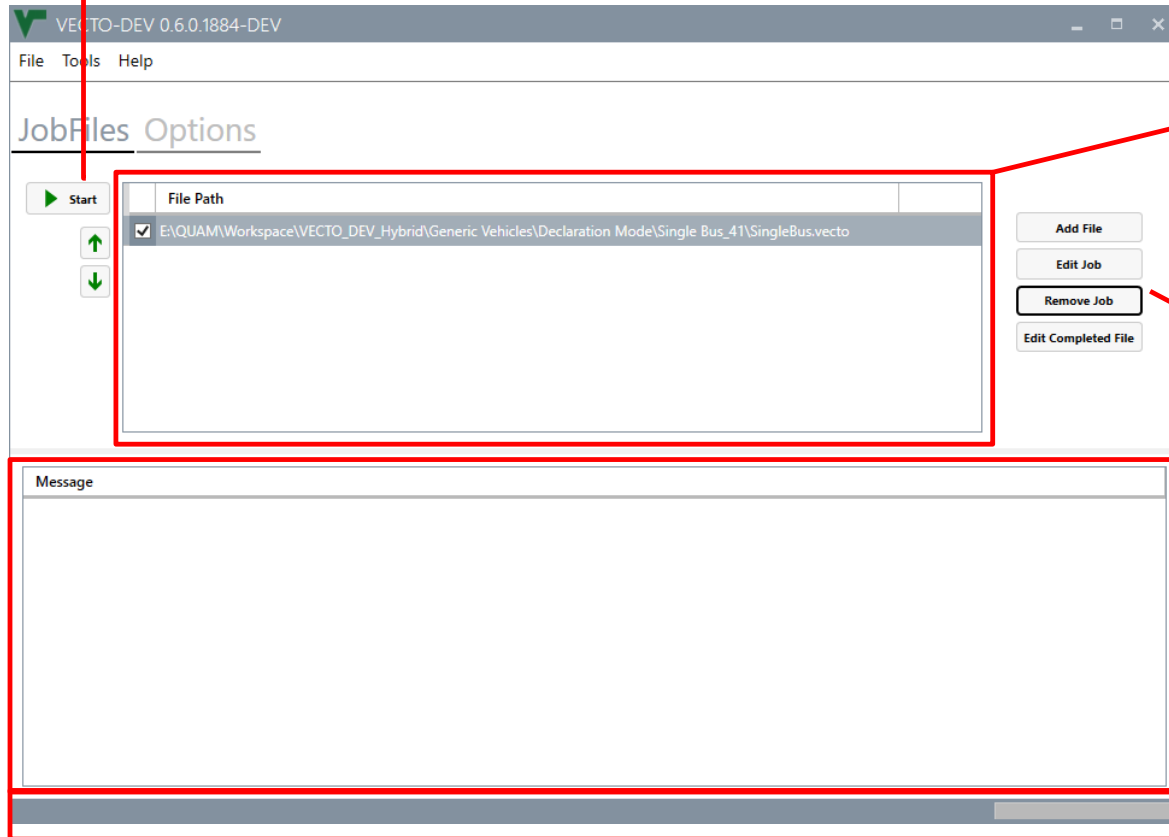
# New VECTO Graphical User Interface

## May 2020

- **Remarks**

- **This is a first version to evaluate a new, more flexible and better structured graphical user interface.**
- The new graphical user interface “VECTO 3” currently allows only creating and editing bus-related job files and component data. This is: completed bus XML, completed bus job file, single bus job file. Support for further VECTO Job data and component data is planned for the future.
- This GUI allows to simulate existing VECTO jobs (heavy lorries, medium lorries, engine only, ...)
- The functionality of the new graphical user interface is similar to the currently official VECTO version
- This draft version is intended to be used in the 2020 pilot phases. Features of final / long-term version to be discussed with Commission and stakeholders after feedback.

# Main Window – Jobs View



Buttons to start/stop the VECTO simulation and re-order jobs

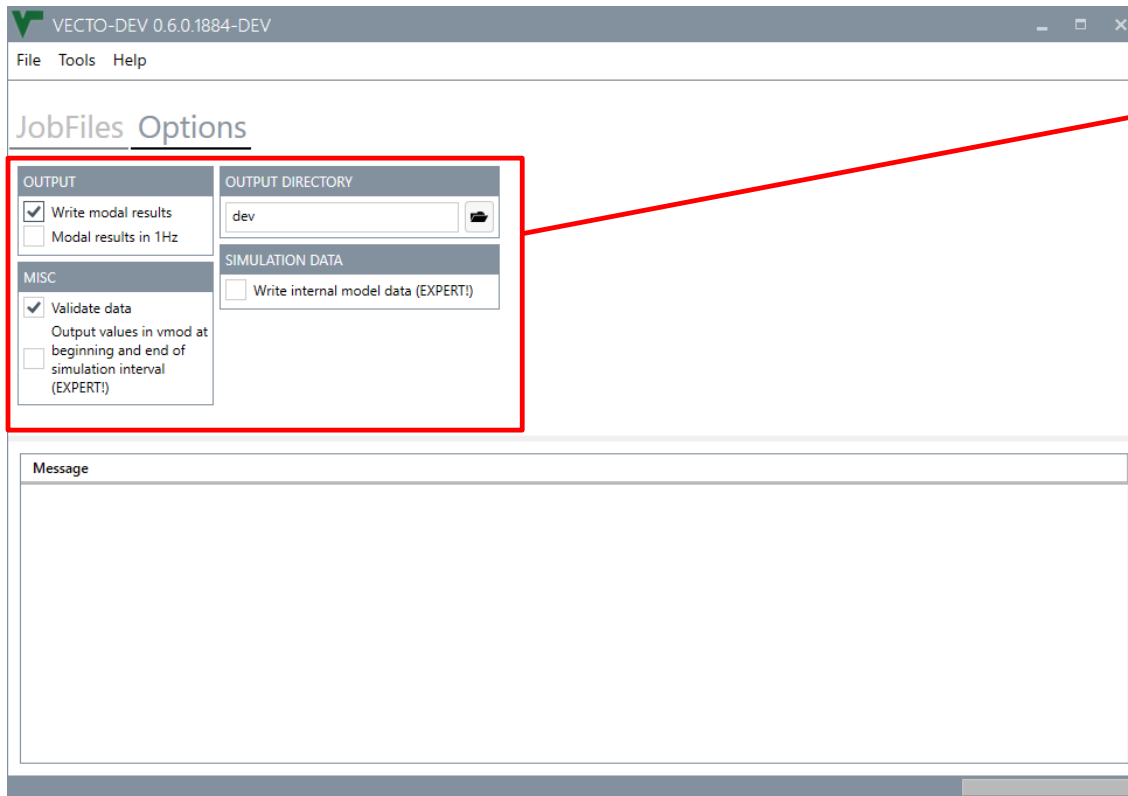
List of VECTO Jobs.  
Selected jobs are simulated when clicking the “Start” button. Adding jobs can be done either via the “Add File” button to the right of via drag&drop from the file explorer

Buttons to add job files, edit job files from the job list, remove the selected job from the job list.

Message List.  
The output during the simulation is shown in the message this. This includes the simulated jobs, detected cycle types, Errors occurring during simulation and the generated results of the simulation

Progress Bar.  
Shows the progress of every single simulation run as well as the overall progress during the simulation

# Main Window – Options



VECTO-DEV 0.6.0.1884-DEV

File Tools Help

JobFiles Options

**OUTPUT**

☒ Write modal results

☐ Modal results in 1Hz

**MISC**

☒ Validate data

Output values in vmod at beginning and end of simulation interval (EXPERT!)

☐ Write internal model data (EXPERT!)

**OUTPUT DIRECTORY**

dev

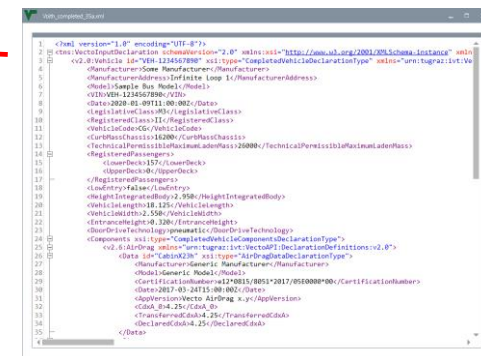
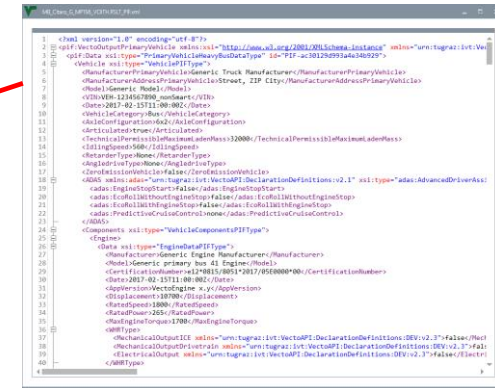
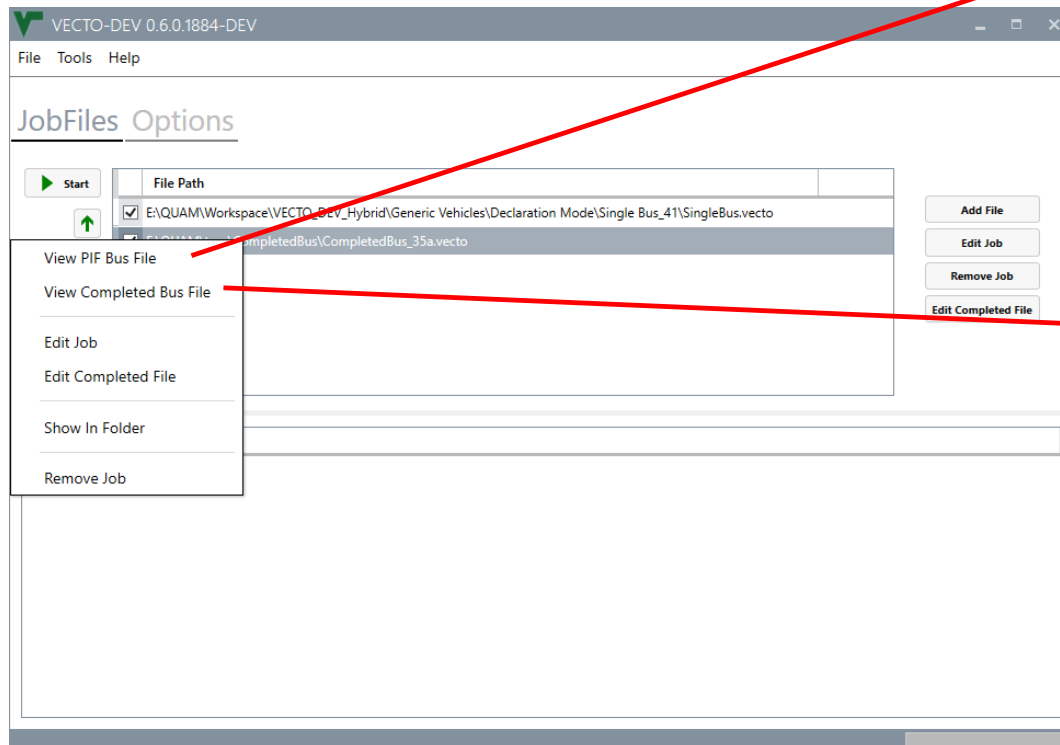
**SIMULATION DATA**

☐ Write internal model data (EXPERT!)

Message

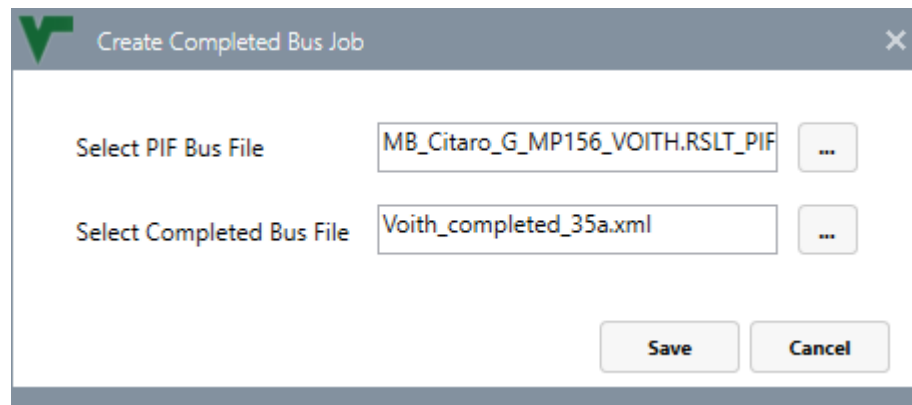
Options for VECTO Simulations related to generation of result files, validation options, etc. These options are the same as in the current VECTO version.

# Main Window – Job List Context Menu



The context menu of a job entry allows to view the XML files of the primary vehicle XML, primary vehicle information file, completed bus XML. It is also possible to edit known VECTO job files and known vehicle files (completed bus)

# Creating / Editing Completed Bus Job



For a completed bus job the PIF file and the completed bus XML file need to be provided.

The dialog for a single bus job is similar. A single bus job requires the primary bus XML file and the completed bus XML file.

# Completed Bus Input Data – Vehicle

File Input Validation

Vehicle Air Drag Auxiliaries

VEHICLE DATA

Manufacturer	Some Manufacturer
Manufacturer Address	Infinite Loop 1
Model	Sample Bus Model
VIN	VEH-1234567890
Legislative Class	M3
Registered Class	II
Vehicle Code	CG
Curb Mass Chassis	16200 kg
Permissible Maximum Laden Mass	26000 kg
NG Tank System	Not applicable
Passengers Lower Deck	157
Passengers Upper Deck	0
Low Entry	<input type="checkbox"/>
Height Integrated Body	2.950 m
Vehicle Length	18.125 m
Vehicle Width	2.550 m
Entrance Height	0.320 m
Door Drive Technology	Pneumatic

Reset Save Commit Vehicle changes

Dialog for editing the input parameters of a completed bus XML.

A separate tab is provided for every component (see screenshots on the following slides)

Save changes to the file

Store changes to the current component VECTO internally (changes are NOT saved to the file). Future changes can be undone with the 'Reset' button

# Completed Bus Input Data – Air Drag

File Input Validation

Vehicle Air Drag Auxiliaries

**ARIDRAG CONFIGURATION**

☐ Use standard or generic values  
☒ Use airdrag component data

Load Component File:

**ARIDRAG DATA**

Manufacturer	<input type="text" value="Generic Manufacturer"/>
Model	<input type="text" value="Generic Model"/>
Date	<input type="text" value="3/24/2017 3:00:00 PM"/>
Certification Number	<input type="text" value="e12*0815/8051*2017/05E0000*00"/>
App Version	<input type="text" value="Vecto AirDrag x.y"/>
DeclaredCd x A 0	<input type="text" value="4.25"/> m <sup>2</sup>



# Completed Bus Input Data – Auxiliaries

File

Input Validation

Vehicle

Air Drag

Auxiliaries

ALTERNATORS TECHNOLOGY

Add

Remove All

Alternator Technology	
default	

ELECTRIC SYSTEMS

Dayrunnights LED

☒

Headlights LED

☒

Positionlights LED

☒

Brakelights LED

☒

Interiorlights LED

☒

HVAC

System Configuration

Configuration 6

Compressor Type Driver

2-stage

Compressor Type Passenger

None

Aux Heater Power

15000

W

Double Glasing

☐

Heat Pump

☐

Adjustable Auxiliary Heater

☐

Separate Air Distribution Ducts

☐

Reset

Save

Commit Auxiliaries changes