PTV Vistro 2022 Release Notes

PTV | GROUP

Last modified: 2022-08-08

2022.00-07   [247869]

2022-08-08

⊕ New Features and Changes

Installation

⊕ The CodeMeter Runtime deployed with PTV Vistro has been updated to CodeMeter 7.50. **(2224)**

✅ Fixed Bugs

Dialogs

✅ Network Optimization: An issue was fixed related to numbers in the dialog Network Optimization. Decimal numbers are now treated correctly. **(2216)**

Graphic parameters

✅ Queues: Queue polygons are now also drawn on one-way streets. **(2214)**

Installation

✅ Start: An issue was fixed, where the software did not start and showed the error message 'The application was unable to start [...]'. This only happened on certain versions of the operating system and when codemeter runtime version 7.30 was installed. **(2227)**

Volumes tab

✅ Pedestrian volumes: An issue was fixed related to HCM 7th Edition and pedestrian volumes. The data rows v_do, v_di, v_co, v_ci, and v_ab sometimes suddenly showed the value '0' right after nonzero values had been entered. The volumes where still not zero, as could be seen when the analysis method was changed to HCM 6th Edition. Now all values are shown correctly. **(2213)**

2022.00-06   [246683]

2022-07-12

⊕ New Features and Changes

License management

⊕ The CodeMeter configuration details have been moved to a new settings dialog. **(2217)**

Trip Generation tab

⊕ Switch table position: A button 'Switch table position' was added to the Trip Generation workflow to quickly move this table into a horizontal position. This provides a wider view to review and enter data. Click this button again to switch the table back to the vertical position. **(2182)**

- ITE: Vistro is now connected to the ITE TripGen app's 11th Edition data. Log in to this feature with your ITE TripGen app account using a log-in button in the toolbar area of Vistro's Trip Generation workflow. To use this feature, the license agreement must be accepted, and each user acknowledges that they own a separate individual license to the ITE TripGen App. The 'ITE TripGen' column was added to right-side of Vistro's Trip Generation table. After logging in, click the 'Edit' link to open or right-click to open the context-menu to access the Vistro dialog that interfaces with the ITE TripGen App. The Vistro dialog's input data is transferred to the ITE TripGen App, and then the ITE TripGen App will transfer the results back to the Vistro dialog. Users can read the ITE TripGen App's 'Data Plot Description', or preview the 'Data Plot and Equation' for each result. Users can select either the 'Average Rate' or 'Fitted Curve' result, and this result is transferred into the Vistro Trip Generation table automatically. If 'Average Rate' is selected, then the Vistro Trip Generation table's 'Data Entry' field will update to 'Rate'. If 'Fitted Curve' is selected then the 'Data Entry' field will update to 'Trip'. Note: At this time not all fields in the Vistro input dialog are stored in the Vistro data model. Users will have to enter these fields for each look-up. Please document your lookup parameters. These new attributes will be added to Vistro 2023 to make reviewing and modifying the existing ITE TripGen App lookups easier. **(2204)**

✅ Fixed Bugs

Dialogs

- Fixed crashes: An issue was fixed, where an error window with the message 'Unhandled exception has occured [...]' appeared. This happened when the mouse pointer was moved across the border of a dialog window. This only happened when the DPI settings (size of text and apps) of the Windows operating system were set to 175% or higher. **(2184)**

Non-graphical editors

- Fixed crash in lane configuration: An issue was fixed, where Vistro crashed when the lane configuration on an approach was changed. This happened only in networks originating from Visum and containing main nodes. The crash occurred, when a sub-node of a Visum main node was edited. **(2212)**

2022.00-05 [245048]   2022-06-03

✅ Fixed Bugs

Calculation

- Delay on left turns: An issue was fixed in the calculation of delay on major flow left turns, when the volume on the through movement is 0. Before the fix, the left turn showed an unrealistically high delay. This issue only applied to HCM, 7th Edition. **(2201 🔴)**

Graphical parameters

- Fixed freeze / crash: An issue was fixed, where Vistro froze or crashed when 'Show turning movements' or 'Show detailed traffic conditions' was activated. The underlying issue was an error in the calculation of two-way stop controlled intersections, when there where entry lanes without movements. Such lanes can only exist after a file import from an outside source. The crash could also occur when such an intersection was selected in the Intersection drop-down list. **(2207)**

⛔ Breaking Changes

Calculation

- Two-way stop, HCM 7th Edition: Calculation results on two-way stop controlled intersections calculated according to HCM, 7th Edition, may be different. **(2201 ✅)**

2022.00-04 [244300]   2022-05-16

➕ New Features and Changes

Installation

- The CodeMeter Runtime deployed with PTV Vistro has been updated to CodeMeter 7.40b. **(2170)**

License

⊕ License size: The license size was increased. Vistro now allows 10000 nodes, 24000 links, and 400 zones/gates. The license needs to be updated for these changes to take effect. The size of the license is now shown in the dialog 'License'. **(2199)**

✅ Fixed Bugs

Graphical editors

✅ Demo version: An issue was fixed, that only occured in the demo version. It no longer happens, that intersections, that are added to the network are invisible. **(2169)**

Simulation & ANM

✅ Previewer: An issue was fixed in the Vissim preview. There no longer is a technical error message, when there exists a coordinated signal group that is not contained in the sequence. Instead, the simulation runs correctly. **(2190)**

Traffic control tab

✅ Priority scheme: An issue was fixed, where Vistro could crash, when the priority scheme was changed on a signalized intersection. **(2172)**

2022.00-03 [240937]   **2022-03-10**

⊕ New Features and Changes

Calculation

⊕ HCM 7th Edition: The default analysis type for intersections now is HCM 7th Edition. **(2154)**

✅ Fixed Bugs

✅ Exclusive pedestrian phases: An issue was fixed in the calculation of exclusive pedestrian phases. When a pedestrian phase is created, it is now by default set to 'Ped Recall'. The recall can be removed in the Signal Groups dialog. The exclusive pedestrian signal group is now marked as 'In Use' in that dialog.
Furthermore, pedestrian volume now is assigned exclusively to the exclusive pedestrian phase and no longer influences the probability of phase calls of vehicle phases. In the split optimization, the minimum split of the exclusive pedestrian phase is now taken into account correctly. **(2165 🛑)**

Simulation & ANM

✅ Channelized turns in left-hand traffic: In the simulation preview and the export to Vissim, the geometry of channelized turns in networks with left-hand traffic was fixed. **(2156)**

Traffic control tab

✅ Exclusive pedestrian phases: Pedestrian clearance for exclusive pedestrian phases is now shown in yellow in the sequence diagram. The tool tip for green time now shows the walk time. **(2166)**

🛑 Breaking Changes

Calculation

🛑 Exclusive pedestrian phases: Calculation results will differ, if there exists an exclusive pedestrian phase. **(2165 ✅)**

2022.00-02 [238396]   **2022-01-11**

⊕ New Features and Changes

Calculation

- The HCM 7th Edition analysis method can now be selected for signalized, roundabout, two-way stop, and all-way stop control types. For signalized and roundabout control types, a 'Proportion of CAV %' field has been added to estimate the impacts of CAVs. The two-way stop control type now includes flared lane, minor lefts one-stage movement, and shared major-street lane sharing updates. No changes were made for the all-way stop control methodology. See the TRB's Highway Capacity Manual 7th Edition for more information on the methods and calculation adjustments factors and application guidance. **(2111)**

Installation

- The CodeMeter Runtime deployed with PTV Vistro has been updated to CodeMeter 7.40. **(2150)**

2022.00-01 [237413]
2021-12-08

⊕ New Features and Changes

- The CodeMeter Runtime deployed with PTV Vistro has been updated to CodeMeter 7.30a. **(2132)**

Simulation & ANM

- The preview in Vissim was updated. Controllers with frequencies other than 1 now run correctly. The frequency in this case is derived from the values of parameters like yellow and allred. **(2125)**

✓ Fixed Bugs

File import / export

- OSM import: The OSM import works now. **(2134)**

2022.00-00 [234804]
2021-10-05

⊕ New Features and Changes

Graphical editors

- Location search: A location search allows you to navigate quickly in large networks. In the network editor, you will find a button that allows you to enter short search terms. Potential hits will be displayed. The location of the selected address is displayed in the network editor. **(949)**

Simulation & ANM

- Channelized turns: Channelized turns are now exported to Vissim with the same geometry, that is visible in Vistro. If there are crosswalks on the channelized turn, these are displayed in Vistro and will be exported to Vissim **(2100)**
- Matrix data export: Vistro now automatically exports an .anmRoutes file, if the network contains zones. This file can be used in Vissim for 'Dynamic assignment'. **(2115)**
- Partial network export: Vistro now uses the 'Analyze Intersection' flag in the Vissim export. Intersections, for which the flag is deactivated, are no longer exported to Vissim. This allows to export partial networks. The values exports and imports were extended to write and read the 'Analyze Intersection' flags. This allows to easily export partial networks repeatedly. **(2102)**

⊘ Breaking Changes

Calculation

- Signalized: Results will be different, if there are permissive left turns with opposing exclusive right turns. **(2112)**