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2.00-07 [85250]

2014-02-24

## + New Features and Changes

### Dialogs:

- + Pedestrian Clearance: There now exists a global value for the default of the pedestrian clearance time of signal groups. **(512)**

### Graphical editors:

- + Background images: Working with background images was improved. Changing the size of background images or moving them is much faster now. **(522)**
- + Paths and routes: After a path or a route was added, it will now remain highlighted. **(305)**

### Installation:

- + Example file: Vistro now provides a new example network for left-hand traffic. **(1175)**

### Other:

- + Error messages: All error messages are now displayed on the screen. **(1070)**

## ✓ Fixed Bugs

### File import / export:

- ✓ ANM export: ANM files could not be read in Vissim when the network contained roundabouts with inbound one-way streets. This issue was fixed. **(1219)**
- ✓ ANM export: Vistro now exports the correct lane widths to Vissim. **(1220)**
- ✓ ANM import: Vistro no longer crashes when an ANM file is imported that contains routes that refer to invalid node numbers. **(1218)**

### Graphical editors:

- ✓ Backgrounds: It is now possible to show background images of types SVG, DXF, and DWG. **(1210)**
- ✓ Minimizing the window: Minimizing and restoring the Vistro window no longer changes the zoom level in the graphical editor. **(446)**

### Intersection setup tab:

- ✓ Crosswalks: When the checkboxes of crosswalks are changed by highlighting several cells, the status of the cells now will be changed correctly. Previously it was possible that the cells showed the wrong status after a change. **(1021)**

### Main window:

- ✓ Intersection list: It is possible again to search an intersection in the 'Intersection' drop-list by typing its number. **(1211)**
- ✓ Undo: Vistro could crash when an intersection was copied and 'Undo' was used. This only happened when the mitigation tab was open. **(1190)**

### Mitigation:

- ✓ Controllers with several intersections: Calculations on signalized mitigation options were incorrect when the original intersection had a controller that was assigned to several intersections. This issue was fixed. **(1189)**

### Scenario management:

- ✔ Green times: The timing diagram was empty if there existed a signal group with green time 0. Furthermore, pedestrian green times were sometimes not saved correctly in scenarios. Both issues were fixed. **(1216)**

#### Traffic control tab:

- ✔ Roundabouts: The value 'User-defined Follow-Up Time' now allows two digits. **(1199)**
- ✔ Signalized, HCM 2010: The flow distribution according to HCM2010 did not work properly for signalized intersections, if there was a permissive-protected (or protected-permissive) shared left turn lane and at least one other lane. This error has been fixed. **(1212)**

#### ! Breaking Changes

#### Traffic control tab:

- ! Signalized, HCM 2010: Calculation and optimization results for signalized intersections that are calculated according to HCM 2010 will change, if the intersection has a shared protected-permissive (or permissive-protected) inner lane and at least one other lane. **(1212)**

**2.00-06 [84357]**

**2014-01-21**

#### + New Features and Changes

#### Scenario management:

- + Save as...: It is no longer possible to accidentally overwrite the base network with 'Save as...'. **(1203)**

#### ✔ Fixed Bugs

#### File import/export:

- ✔ Synchro export: Synchro export no longer fails if the network contains a one-way street with a crosswalk. **(1205)**

#### Scenario management:

- ✔ Controller data: In certain scenarios it was possible that Vistro crashed when the traffic control tab or the mitigation tab were opened or when a report was printed. The cause was an issue with the controller data. This issue was fixed. **(1204)**
- ✔ Path volumes: Path volumes in scenarios are now recalculated when a scenario is opened. Before this it was possible that path volumes were not up-to-date when paths had been changed in the base scenario. **(1200)**

**2.00-05 [83887]**

**2013-12-18**

#### + New Features and Changes

#### File import / export:

- + Synchro / ANM projections: Projections in Synchro or ANM files are now taken into account in the file import. **(1185)**

#### Traffic control tab:

- + 50th Percentiles: 50th percentile queue calculations were removed for TWSC, AWSC, and roundabout analysis. **(1187)**

#### ✔ Fixed Bugs

#### Graphical editor:

- ✔ Unbalanced flows: Unbalanced flows now take into account u-turn volumes. **(1191)**

#### Optimization:

- ✔ U-Turns: Vistro no longer crashes in the network optimization when there are two adjacent two-way stop intersections that have u-turns. **(1183)**

#### Traffic control tab:

- ✔ Translations: The values in the 'Control Type' row in the sub-table 'Phasing & Timing' where sometimes not translated correctly when the language was changed. This issue was fixed. **(1182)**

## ❗ Breaking Changes

### File import / export:

- ❗ Synchro / ANM projections: The .anm files written with Vistro now require Vissim 5.40-11 or higher and Vissim 6.00-09, respectively. **(1185)**

**2.00-04 [83525]**

**2013-12-02**

## + New Features and Changes

### File import / export:

- + File name: When the "Save as..." dialog is used, Vistro will now supply better defaults for file names. In particular Vistro will no longer display the name of an old file if the "New" button was used after the older file was loaded. **(619)**

### Main window:

- + Oversize: Vistro now shows in the titlebar whether the size of the network exceeds the size of the license. **(1095)**

### Optimization:

- + Cancel: Optimization now finishes quicker when 'Cancel' is hit. **(436)**

### Volumes tab:

- + Data rows: Certain data rows are now only shown for certain control types. For example, the data row 'Local Bus Stopping Rate' is only shown when the intersection is signalized and the analysis type is HCM. In other cases this value is irrelevant for the calculation on the traffic control tab. **(1100)**

## ✔ Fixed Bugs

### File import / export:

- ✔ .ver import: After a .ver file was imported, clicking 'Save' no longer results in an error message. **(1160)**
- ✔ Extensions: Files are now always exported with the correct extension (for example .ver, .anm, etc.). **(1144)**

### Reporting:

- ✔ Chinese: Reports can now be printed correctly in Chinese. **(1170)**

### Scenario management:

- ✔ Detectors, Vissim: In certain cases it was possible that detectors did not work correctly in the Vissim preview or Vissim simulation. This issue was fixed. **(1162)**

### Traffic control tab:

- ✔ Intersection V/C: The value 'Intersection V/C' was calculated incorrectly, if the critical path contained a lane group with an overlap. This issue was fixed. **(1168)**
- ✔ Time of Day Pattern Isolated: When the coordination type is 'Time of Day Pattern Isolated', the 'Coordinated' values in the 'Phasing & Timing' sub-table are now editable. **(1177)**
- ✔ Vissim preview: When the traffic control tab was open and the Vissim preview was started, the layout of the traffic control tab was corrupted. This issue was fixed. **(1037)**

**2.00-03 [82623]**

**2013-10-24**

## + New Features and Changes

### Main window:

- + Help menu: The Help menu now has a new entry 'Open Examples Folder'. **(1082)**

## ✔ Fixed Bugs

### Dialogs:

- ✔ Global Settings: When the scrollbar was used in the global settings dialog and the dialog was opened a second time, no scrollbar appeared, and not everything was visible. This issue was fixed. **(1047)**

### File import / export:

- ✔ Extensions: Vistro will now always add the correct file extension to filenames. For example, when the menu entry 'Save as..' is used, the name 'File.vistropdb' will now automatically be changed to 'File.vistropdb.vistro'. **(1134)**
- ✔ Project files: Opening a project file with a double-click in the Windows Explorer now works correctly. Before this fix the window title was changed but projects were in many cases not loaded correctly. **(1133)**
- ✔ Synchro import: Signal groups are now also correctly assigned to turns on intersections that share a controller with another intersection. **(1126)**
- ✔ Synchro import: Synchro files can now be imported if they contain detectors that lie downstream of the stop line (i.e. inside the intersection). **(1142)**
- ✔ Synchro: After an import crosswalk widths are now correct. **(1120)**

### Non-graphical editors:

- ✔ U-Turns: When a U-turn is closed, the column will now be removed, not only deactivated. **(1088)**

### Reporting:

- ✔ File name: The name of the current network file is now always printed correctly in the report. **(1135)**
- ✔ Mitigation tab: When a report was printed the layout of the mitigation tab was damaged. This issue was fixed. **(1085)**

### Scenario management:

- ✔ Loss of scenario data: It was possible that problems when working with scenarios (for example network connectivity) lead to a wrong state that caused scenario data being overwritten. Vistro no longer enters the wrong state. **(1137)**

**2.00-02 [81857]**

**2013-09-20**

### ✔ Fixed Bugs

#### File import / export:

- ✔ ANM, overlaps: When overlaps existed, it was possible that the simulation in Vissim was aborted. This issue was fixed. **(1127)**
- ✔ Pattern schedule: It was possible that in special cases data was entered for the wrong pattern in the Rbc controllers in the ANM export. This issue was fixed. **(1131)**

#### Traffic control tab:

- ✔ Fully actuated controllers: For fully actuated controllers it was possible that the control type in the lane group sub-tables was different from the control type in the Phasing & Timing sub-table. The reason for this was that the cycle time was calculated incorrectly. The fix changes calculation results for this type of controller. **(1128)**

### ❗ Breaking Changes

#### Traffic control tab:

- ❗ Fully actuated controllers: The calculation results for fully actuated controllers will be different. **(1128)**

**2.00-01 [81210]**

**2013-08-12**

### + New Features and Changes

#### Main window:

- + Help: Accessing help will now open a .chm document. **(1119)**

#### Reporting:

- + Background images: Reports now contain the background images that are visible in the graphical editor. **(1117)**

## ✓ Fixed Bugs

### File import / export:

- ✓ Synchro import, detectors: Handling of detectors in Synchro import was improved. Length and location will now be retained. **(1118)**

### Traffic control tab:

- ✓ Permitted/Protected and Sneakers: Sneakers are now also taken into account in permitted/protected settings. This increases the capacity and reduces the delays. **(1125)**

### Trip assignment tab:

- ✓ When a path is deleted the view no longer jumps to the top. **(1043)**

## ! Breaking Changes

### Traffic control tab:

- ! Permitted/Protected and Sneakers: Sneakers are now also taken into account in permitted/protected settings. This increases the capacity and reduces the delays. **(1125)**

**2.00-00 [80984]**

**2013-07-31**

## + New Features and Changes

### Data model:

- + Coordination Type: The value 'Coordinated' was replaced by the values 'Time of Day Pattern Coordinated' and 'Time of Day Pattern Isolated'. **(999)**

### Dialogs:

- + License number: The license number is now shown in the 'About' dialog. **(1032)**
- + Units / Direction of traffic: When the unit type or direction of traffic is changed, new networks will automatically have the new setting. **(953)**

### File import / export:

- + ANM, Detectors: Files generated for Vissim now contain more consistent detector data. **(690)**
- + SVG: It is now possible to export a screenshot of the network as a SVG file. **(1113)**
- + vistropdb: Double-clicking on .vistropdb files now will open this file in Vistro. **(455)**

### Graphical editors:

- + Copy intersections: It is now possible to copy intersections with all their data (lane configuration, signal timing, ...). **(14)**
- + OSM maps: OSM maps are now supported. **(160)**
- + Queue lengths: It is now possible to see maximum queue lengths in the graphical editor. **(972)**

### Installation:

- + University version: There is now a Vistro version for universities. **(691)**

### Intersection setup tab:

- + Channelized control: Channelized control can now have the value 'Without'. **(956)**
- + Channelized control: When the channelized control on two-way stop intersections has the value 'Without', this is now taken into account in the calculation of conflicting flows. **(166)**

### Main window:

- + Menu: Vistro now shows a list of most recently used files. **(277)**

### Network optimization tab:

- + Coordination group: The coordination group of each signalized intersection is now shown in the time-space diagram. **(600)**

- + Two directions: It is now possible to see a route and its reverse route at the same time. **(331)**

#### **Non-graphical editors:**

- + Reverse paths and routes: Vistro now allows adding paths and routes in reverse direction. **(516)**

#### **Reporting:**

- + Fair share analysis: The report now contains fair share analyses. **(92)**
- + Signal warrants: Population < 10,000 now accounted for in the Signal Warrant analyses. **(924)**

#### **Traffic control tab:**

- + 50th percentile queues: 50th percentile queues are now calculated and reported. **(928)**
- + Flared approaches: Vistro now supports the calculation of flared minor approaches on two-way stop controlled intersections. **(912)**
- + ICU 1, ICU 2: Base Saturation Flow can now be edited globally for ICU 1 & ICU 2 methodologies. **(925)**
- + Rank 1 movements: Columns for rank 1 movements now only show relevant values. **(1065)**
- + Timing diagram: It is now possible to edit signal timings directly in the signal timing diagram. **(176)**
- + Two-stage gap acceptance: Vistro now supports calculation of minor approaches with two-stage gap acceptance on two-way stop controlled intersections. **(932)**
- + Upstream filtering factor: Now provides support for signalized upstream filtering for HCM 2010 through the upstream filtering adjustment factor, I. **(929)**

#### **Volumes tab:**

- + Bus stopping rate: Number of bus maneuvers on the approach is a volume entry. F\_bb is now calculated based on this entry. **(926)**
- + Heavy Vehicle Percentage: Heavy Vehicle Percentage is now input and stored by movement (was previously by approach). **(923)**
- + Parking: Number of parking maneuvers by side of street on the approach is a volume entry. F\_p is now calculated based on this entry **(927)**