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1.00-06 [75194]

2012-12-05

## + New Features and Changes

### Graphical editors:

- + Show traffic conditions: The expression 'Average Delay' was replaced with 'Delay'. (748)

### Traffic control tab:

- + ICU / Circular 212: Several improvements were made in the calculation and the table layout of these analysis types. (738)

## ✓ Fixed Bugs

### File import / export:

- ✓ ANM without RBC: Files can now be read again in Vissim, cycle time was missing. (729)

### Intersection setup tab:

- ✓ Lane configuration: The data shown in the lane configuration was not adjusted when the orientation / polygons of the links in the graphical editor was changed. This issue was fixed. (750)

### Main window:

- ✓ Crash: When a new network was loaded, Vistro would crash if the volume tab was selected without first selecting an intersection.. (755)

### Mitigation:

- ✓ Tab changes: When the lane configuration in a mitigation option is changed, the view no longer automatically switches to the base configuration. (746)

1.00-05 [75098]

2012-12-02

## + New Features and Changes

### File import / export:

- + Synchro / ANM import: Vistro now can import Synchro and ANM files. (716)

### Intersection setup tab:

- + Control type 'Unknown': The table now contains a row to edit crosswalks. (505)

### Optimization:

- + Local and Network Optimization: The defaults for upper limits of cycle times were set to 240 seconds. (510)

### Traffic control tab:

- + Roundabout, HCM 2010: The table now contains a data row for the heavy vehicle adjustment factor. (668)

## ✓ Fixed Bugs

### Dialogs:

- ✓ Global settings: It is now verified that the values of the global parameters are valid, i.e. they lie in the specified range. (712)
- ✓ Global settings: Tabbing now works in the correct order. (594)

### File import / export:

- ✔ ANM export: Sometimes ANM files could not be imported in Vissim because of invalid detector data (duplicate keys). This issue was fixed. **(721)**
- ✔ ANM export: When the network contained intersections where the cycle time of a controller was smaller than the largest green time end of a phase / signal group, the ANM file could not be imported in Vissim. This issue was fixed. **(720)**

#### Graphical editors:

- ✔ Isolated intersections: Vistro no longer crashes when an isolated intersection (intersection with no leg handles) is selected. **(197)**
- ✔ Vistro no longer changes the zoom level when the network is saved. **(477)**

#### Simulation:

- ✔ Actuated controllers: The actuation in the simulation did not work correctly because detectors did not have the correct channel number. This issue was fixed. **(735)**
- ✔ Signal groups: Signalized intersections did sometimes not work correctly in the simulation, because wrong signal group numbers were used. This issue was fixed. **(730)**

#### Traffic control tab:

- ✔ All-way stop: In certain cases (when there exists an approach with three lanes or more) the geometry group was determined wrongly. This issue was fixed. **(731)**
- ✔ All-way stop: Queue lengths are calculated now. **(733)**
- ✔ Roundabout, HCM 2010: In certain cases the distribution of volume to lanes was incorrect. This issue was fixed. **(742)**
- ✔ Roundabouts, HCM 2010: Now the bypass data is correctly taken into account in the calculations. **(741)**
- ✔ Signalized, HCM 2010: In certain cases the calculated uniform delay was too high. This issue was fixed. **(728)**
- ✔ Signalized: The input factors 'Parkink Adjustment' and 'Bus Blocking Adjustment' now have three digits. **(479)**
- ✔ Two-way stop: The data row "d\_l, Intersection Delay" now shows the average delay, not the maximum delay. **(662)**

**1.00-04 [74931]**

**2012-11-27**

#### + New Features and Changes

##### Volumes tab:

- + Peak hour factor: The peak hour factor is now restricted to the range 0.25 to 1.00. **(604)**

#### ✔ Fixed Bugs

##### Data model:

- ✔ Pedestrian signal groups: Pedestrian signal group now is created immediately after the vehicle signal group is defined. Previously it was possible to create a vehicle signal group with a walk time that had no corresponding pedestrian signal group. **(694)**

##### File import / export:

- ✔ ANM: Coordination flag of signal groups now is consistent in Vistro and Vissim. **(677)**
- ✔ ANM: Detector call and extend data is now consistent in Vistro and Vissim. **(676)**
- ✔ Open network: When a new network file was loaded, editing data in the volumes tab could lead to a crash. This issue was fixed. **(700)**
- ✔ Synchro / ANM import: Heavy vehicle percentages are now set after the import. **(681)**
- ✔ Synchro / ANM: The value 'right turn on red' now is taken into account correctly. **(680)**
- ✔ Visum: An issue was fixed where Vistro could crash when a Visum network (.net) file was imported that contained RBC data. **(685)**

##### Intersection setup tab:

- ✔ Pocket length: Vistro now uses a default pocket length of 100 ft. **(692)**

#### Network optimization tab:

- ✔ Name: The names of the routes are visible now. **(693)**

#### Traffic control tab:

- ✔ Actuated controllers, HCM 2010: The delay calculation for actuated controllers was corrected. This also affects other values that are connected to delay. **(675)**
- ✔ All-way stop: The calculation was corrected. **(666)**
- ✔ Bus blocking adjustment, HCM 2000: The bus blocking adjustment factor is now only used on the outermost lane group. **(672)**
- ✔  $f_{Rpb}$ , HCM 2000: In the calculation of the right turn pedestrian blockage factor the clearance time now is taken into account. **(673)**
- ✔ Left turn adjustment: The left turn adjustment factor  $f_{LT}$  is now always calculated. **(674)**
- ✔ Parking adjustment, HCM 2000: The parking adjustment factor is now only applied to outermost lane groups (and innermost on one-way-streets). **(671)**
- ✔ Timing diagram: The timing diagram now takes into account the lead / lag flag. **(650)**

#### Volumes tab:

- ✔ Base volume: In certain situations base volume was not editable when it should have been editable. This issue was fixed. **(696)**

1.00-03 [74711]

2012-11-19

### + New Features and Changes

#### Data model:

- + Units: Added support for metric system. **(350)**

#### Dialogs:

- + About Dialog: Added Bing Maps Expiration date to the about dialog. **(557)**
- + Network Optimization: Added a button that allows to just save the settings without optimizing the network. **(514)**

#### Graphical editors:

- + Outbound Lanes: There are no pockets anymore for streets that are at the end of the network. **(378)**
- + Renaming: Renamed Corridor to Route. This means that corridors saved with older versions are not loaded anymore! **(596)**

#### Main window:

- + Vissim Simulation: Vissim Preview is now accessible in a new menu called 'Simulation'. **(633)**

#### Mitigation:

- + Rename: "Critical Movement" -> "Critical Lane groups" **(603)**

#### Optimization:

- + Error Messages: Errors that occur during the optimization are displayed now. **(463)**

#### Reporting:

- + Headers/Footers: There is an option for the Vistro filename as header / footer now. **(639)**
- + Map Background: The map type can be defined now. Option for street names / no street names is added. **(627)**

#### Traffic control tab:

- + Total Saturation Flow Adjustment: Row 'Total Saturation Flow Adjustment' has been removed for HCM 2010. **(531)**

### ✔ Fixed Bugs

### **Bubbles:**

- ✔ If control type is 'unknown' graphical reports are drawn correctly now. **(682)**

### **Data model:**

- ✔ Outbound lanes: Fixed an issue with outbound lanes for intersections at the edge of the network. **(476)**
- ✔ Storing Data: In certain circumstances the signal group data was not stored when saving the network. This is fixed. **(588)**

### **Dialogs:**

- ✔ About dialog: The contact information in the about dialog is correct now. **(632)**
- ✔ Global settings: Entry crosswalk width was removed. **(651)**

### **File import / export:**

- ✔ ANM export: Active pattern in RBC export is now set based on Signal Control coordination type **(540)**
- ✔ ANM export: Fixed an issue relating to detectors. **(539)**
- ✔ Synchro import: Import of protected / permissive turns was corrected. **(561)**
- ✔ Visum .net import: Fixed the import of files from a scenario causing Vistro to crash. **(640)**
- ✔ Visum .net import: Sometimes the import of RBC files has lost signal group data. **(649)**
- ✔ Visum export: Detector information is now exported to RBC files. **(659)**

### **Intersection setup tab:**

- ✔ Negative values: Fixed an issue with entering negative values. **(481)**

### **Main window:**

- ✔ Dialogs: Dialogs are not showing a taskbar icon anymore. **(656)**

### **Mitigation:**

- ✔ Intersection name: The intersection name is no longer editable in the mitigation tab. **(625)**
- ✔ Splits: If using signalised as a mitigation option the splits are no longer zero. **(580)**

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

- ✔ Priority scheme for two-way stop intersections: Improved the toggling of the free / stop designation. **(623)**
- ✔ Tabbing: The tabbing behavior was improved. **(550)**

### **Reporting:**

- ✔ Intersection Header: "Critical Vol / Capacity (X):" -> "Volume to Capacity (v/c):" **(635)**
- ✔ Table headers: Header order has changed. **(636)**
- ✔ Table headers: The v/c label is no longer displayed if there is no v/c for the current intersection. **(634)**
- ✔ Title: 'Basic' has been removed from header. **(637)**
- ✔ Volume Details: Fixed formatting errors in the tabular output. **(581)**

### **Scenario management:**

- ✔ Save dialog: Improved stability. **(660)**
- ✔ Scenario creation: Removed the save file dialog that comes up if the network has already been saved. **(624)**

### **Traffic control tab:**

- ✔ Back of Queue: Changed '% Back of Queue' to '95th %ile Back of Queue' **(643)**
- ✔ Calculations: Fixed an issue in combination with overlaps and protected/permissive. **(628)**
- ✔ Coordination type 'free': Data entries not relevant for Coordination Type = 'Free' are marked as irrelevant now. **(652)**
- ✔ Irrelevant values: The Saturation flow sub-table now is empty if there are no signal groups defined. **(622)**

- ✔ Two-way stop control, HCM 2010, U-turns on major flow: Calculation of capacity is now correct. (667)

## ! Breaking Changes

### Graphical editors:

- ! Corridors / routes saved with files that were saved with previous versions are not loaded anymore! (596)

## 1.00-02 [74457]

2012-11-12

## + New Features and Changes

### Dialogs:

- + Esc key: All dialogs can now be exited with the Esc key. (567)

### Main window:

- + Vissim button: The 'VISSIM' button was removed from the toolbar and moved to a new menu called 'Simulation'. (382)

### Network optimization tab:

- + Editability: The editability was improved. Offsets can now be set by dragging with the left mouse button. (280)

## ✔ Fixed Bugs

### File import / export:

- ✔ Synchro: Uncontrolled intersections will no longer be imported as all-way stops. (464)

### Graphical editors:

- ✔ Panning: It is no longer possible to pan by using the left mouse button. (582)
- ✔ Show traffic conditions: Vistro sometimes crashed when the 'show traffic conditions' button was active, especially when the view was zoomed or panned. This issue was fixed. (577)

### Network optimization tab:

- ✔ X-scale: The X-scale of the diagram is now saved and will be restored when the tab is entered a second time. (349)

### Non-graphical editors:

- ✔ ICU and Circular: The data tables for these analysis methods were adjusted. (609)
- ✔ Signalized intersections: Vistro crashed when an actuated controller was selected that had a ring / barrier pair with more than two elements. This issue was fixed. (610)

### Optimization, Traffic control tab:

- ✔ Signalized intersections: Calculations for controllers with control type 'free' are now based on the maximum green times, not the splits. (585)

### Optimization:

- ✔ Local optimization: In certain cases intermediate configurations in the optimization process have a calculated saturation flow rate of 0 for certain lane groups. The optimization now works correctly in these cases. (575)
- ✔ Local optimization: Results were sometimes not optimal, because calculated splits differed from optimal splits by 1 second. This issue was fixed. (584)
- ✔ Signalized intersections: Split phasing for exclusive and shared inner lane groups is now taken into account in the calculation of maximum allowable headways. This changes the results of delay calculations. (611)
- ✔ Signalized intersections: The delay calculation is now based on lanes, not on lane groups. As a consequence a lot of values that are based on delays are calculated correctly now. (614)

### Scenario management:

✔ Overlaps: Vistro could crash if a scenario was selected where an overlap in the original network was removed in the scenario. This issue was fixed. **(425)**

✔ Pattern times and sequence: Scenarios that contain differences in pattern times or sequences compared to the base scenario no longer cause Vistro to crash. **(615)**

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

✔ Control type 'Free': Since it is not possible to optimize free running controllers, a hint is now shown when the user tries to optimize such a controller. **(488)**

✔ Walk: In a multi-edit operation for the value 'Walk' values for inactive cells are no longer changed. **(548)**

#### **! Breaking Changes**

##### **Optimization:**

! Signalized intersections: The delay calculation is now based on lanes, not on lane groups. As a consequence a lot of values that are based on delays are calculated correctly now. **(614)**

**1.00-01 [74290]**

**2012-11-07**

#### **+ New Features and Changes**

##### **Main window:**

+ Menu: The menu entries 'ANM' and 'ANM (without RBC)' were renamed. The names now contain 'Vissim'. **(569)**

##### **Trip distribution tab:**

+ Editing names of gates: The names of gates and zones can now be edited in the tab. **(503)**

#### **✔ Fixed Bugs**

##### **File import / export:**

✔ Synchro import: Import of links with polygons was improved. **(465)**

##### **Intersection setup tab:**

✔ Number: When the user changes the number of the intersection, the tab no longer is cleared. **(568)**

##### **Mitigation:**

✔ Analysis Method: When the Analysis Method was changed in the traffic control tab, this value was not updated in the mitigation tab. The mitigation tab still showed the previous value. This issue was fixed. **(357)**

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

✔ Add Missing Paths: The Add Missing Paths button now also creates paths from gates to zones. **(572)**

##### **Optimization:**

✔ Hill Climbing: When splits were optimized, it was possible that the final split was 1 second different from the actual optimal split. This issue was fixed. **(573)**

✔ Message and Log file: After the optimization the message and log files are now always complete. **(381)**

✔ Split optimization: The value for 'Allowed reduction from optimum Split' now is taken into account correctly. Additionally, the performance in the case '0.00%' was increased considerably. **(571)**

✔ Starting solution: In some cases Vistro now uses a better starting solution for the network optimization. Previously it was possible in rare solutions that the final solution was worse than the original state in the network. This issue was fixed. **(574)**