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7.00-03 [139033] 2019-01-25

## + New Features and Changes

### Non-graphical editors

- + Multi-edit lane configurations: It is now possible to change the lane configurations on several approaches at the same time. This can be done like in the other grid rows: by selecting a cell and dragging the mouse while the left button is clicked. **(1711)**
- + Pockets: When a lane configuration is set, that contains exclusive left-turn or right-turn lanes, Vistro now automatically defines these as pocket lanes. This only is done for the outermost lanes, and only if at least one through lane remains. **(1728)**
- + Search function: The Intersection setup, Volumes and Traffic Control tabs now offer a search function to filter the rows that are displayed. For example, entering 'Volume' reduces the grid to all rows, that have 'Volume' in their name. **(1782)**

### Traffic control tab

- + Default signalization: Right-turn movements with control type 'Overlap' now get two auxiliary signal groups instead of one, when 'Create Default Signalization' is clicked. The additional signal group is the corresponding left turn to the right-turn overlap. **(1791)**
- + Pedestrian clearance: When 'Create Default Signalization' is clicked, Vistro now uses crosswalk lengths and walking speeds to determine pedestrian clearance times. If crosswalk lengths are not set, lane configurations and median widths are used. **(1790)**
- + Sequence adjustments: When the control type of a movement is changed, Vistro now automatically adjusts the sequence, if the current setup is a default configuration. It is no longer necessary to adjust the sequence manually in those cases. This feature works best with automatic optimization. **(403)**

### Volumes tab

- + Growth factor: For the value 'Growth Factor' now four digits can be entered. **(1818)**

## ✓ Fixed Bugs

### Graphical editors

- ✓ Approach conditions: When 'Show Unbalanced Flows' or 'Show Approach Traffic Conditions' is active, Vistro now only shows data for approaches, that have entry lanes. **(1813)**
- ✓ ICA check: ICA check for control type 'Unknown' now is always successful. **(1817)**

### Intersection setup tab

- ✓ Number of lanes in pocket: The value 'No. of Lanes in Pocket' can now also be edited, if the outermost lane is a through lane. **(1826)**

7.00-02 [137930] 2018-12-12

## + New Features and Changes

### Data model

- + Approach directions: Vistro has a new global setting 'Approach directions'. This setting is used to determine, whether Vistro should only use main directions (like 'Northbound') for the first four approaches of an intersection, or whether it should also use subordinate directions (like 'Northwestbound'). The former setting is called 'Prefer main directions', the latter 'Use main and secondary directions'. The value 'Prefer main directions' is used for new files. Old files keep their previous value 'Use main and secondary directions'. The setting can only be changed in the base network. (1707)

## Graphical editors

- + Lane group values: The third of the graphic parameter buttons was renamed to 'Show Detailed Traffic Conditions'. In addition to turn values it now shows lane group values on signalized intersections. This means that lane group volume/capacity - among others - can now be shown graphically. (1738)
- + Show traffic conditions: The textboxes, that are shown when 'Show Traffic Conditions' is activated, are now colored according to LOS. The same colors are used as for turning movements. The same applies to 'Show Approach Traffic Conditions'. (1740)

## Traffic control tab

- + Overlaps: Signal groups used as auxiliary signal groups in overlaps are now marked 'ov' in the phase diagram. (1760)
- + Phase diagram: Phases that are not active on the current intersection - but on a different one - are now drawn in light green. (1759)

## ✓ Fixed Bugs

### Graphical editors

- ✓ Background images: When a background image was inserted and 'Undo' was clicked, it was possible that Vistro crashed. This issue was fixed. (1800)
- ✓ Turn arrows: In some situations like deleting an intersection, turn arrows remained in the editor. This issue was fixed. (1788)

### Installation

- ✓ Fallback licenses: Fallback licenses now work correctly. (1750)

### Simulation

- ✓ Preview in Vissim: An issue was fixed, where traffic signals did not work correctly in the preview. (1774)

## 7.00-01 [137113]

2018-11-19

## + New Features and Changes

### Graphical editors

- + Base volume input: It is now possible to show 'Base volume input' in the graphical network editor. For this, 'Base volume input' can be selected in the 'Show Turning Movements' graphic parameter. (1717)
- + Cycle lengths: Cycle lengths can now be shown in the graphical editor using the cycle length button in the 'Show intersection info' list. (1762)

### Traffic control tab

- + Phase diagram: Vistro now prevents that splits exceed the cycle length, when the length of a phase is extended by dragging the mouse. (1723)
- + Workflow optimization: Workflows with signal groups on inner movements were improved. When a signal group is removed from the sequence, it is now automatically removed from the movement, and the movement is set to permissive. When an inner movement is set to permissive, its signal group is automatically removed from the sequence. (1689)

## ✓ Fixed Bugs

- ✓ CCG: An issue was fixed, where Vistro froze, when 'CCG Third Edition' was selected. This happened, for example, when signal group numbers were set or when 'Create Default Signalization' was clicked. It only happened, if there was an LTR lane group with medium to high volume. (1748)

- ✔ ICA check: ICA check now reports, when a signal group is assigned to a movement but not placed in the Sequence. This is treated as an error. **(1713)**
- ✔ ICU: An issue regarding user defined saturation flow rates was fixed. Now the user defined values are also taken into account correctly for left turners. **(1751 🚫)**

## 🚫 Breaking Changes

### Traffic control tab

- 🚫 ICU: Results may change when user defined saturation flow rates are used. **(1751 ✔)**

7.00-00 [135597]

2018-09-25

## + New Features and Changes

### Background Maps

- + The Bings Maps Service Terms of Use is now located in a link in the bottom left corner of the Network Editor. When clicked, the link will go to the Microsoft Bing Maps and MapPoint Web Service End User Terms of Use webpage. **(1667)**

### Installation

- + The Codemeter runtime has been updated to version 6.60a. **(1641)**

### Network editor

- + Turn arrows: Turn arrows can now be selected. When a turn arrow is selected, the corresponding 'Base Volume Input' cell in the grid is activated, and it is possible to enter new volume by typing. **(1679)**

### Optimization

- + A checkbox called "Auto" was added to the optimization toolbar in the Traffic Control Workflow. When checked, updates to elements, such as base volumes, lane configurations, cycle times, control types, signal groups, and sequence will trigger an automatic optimization of the phase split times. When unchecked, changes to these elements will not automatically optimize phase split times and phase splits can be manually adjusted. **(1687)**

### Traffic control tab

- + Create default signalization: When the 'Create Default Signalization' button is clicked, Vistro now uses signal group numbers based on the major flow directions. The global settings defining default signal group numbers for approach directions, are now only used, if the given direction is on the major flow. **(1712)**
- + Create default signalization: When the button 'Create Default Signalization' is used, Vistro now performs a cycle time optimization, if the intersection has no signalization yet. When the intersection already has signalization, and the button is clicked, Vistro performs a split optimization. **(1698)**
- + Create default signalization: When the button 'Create Default Signalization' is used. Vistro now leaves spaces for unused phases. For example, Signal group 4 is now always placed in Slot 4 of the first ring, even if there is no Signal group 3. The exception is split phasing, where signal groups now are placed as before. **(1688)**

### UI

- + Approach direction arrows have been added at the top of the Intersection Setup, Volumes, and Traffic Control Workflow Panels. These arrows are frozen to the top of the panel and indicated the approach direction of the intersection legs. **(598)**

## 🚫 Breaking Changes

### Traffic control tab

- 🚫 Two-way stop, base critical headway: Calculation results on intersections with major flows with two or more lanes will be different, if no user override was used. **(1631)**

## ICA node checking updates due to updates in Visum.

- 🚫 ICA node checking updates due to updates in Visum. **(1668)**

## Traffic control tab

- 🚫 Two-way stop control: Queue lengths may be different on intersections with u-turns on major approaches. **(1648)**