

# **VISUM Release Notes**

**Version 9.5**

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**Discarded Program Crashes**

- ▶ *Create link*: Crashes no longer occur when repeatedly creating links with intermediate polygon points. (5383)

**Procedures**

- ▶ *PuT assignment - Headway-based*: In case of overlapping coupling groups, VISUM not only issues a general warning but also records all conflicts in the trace file. (5387)
- ▶ *PrT assignment - Dynamic*: When setting option "Save dynamic route volumes - only total" under [FUNCTIONS] - *PrT-Functions - Volume*, the program now considers the total of all time intervals and not just the volume of the first interval. (5410)

**Other Procedures**

- ▶ *Line Blocking*: Vehicle journey sections can now also follow one another if the total of the distance of time and the supplements exceeds the length of the analysis period. (5414)

**Network Editor**

- ▶ *Aggregating line routes*: During the aggregation, permitted boarding and alighting stops on time profiles are no longer lost. Thus, the following situation no longer leads to the procedure being cancelled: Two time profiles - A and B - are aggregated, a shortened vehicle journey runs on time profile B and on time profile A boarding/alighting is not permitted at the first and the last stop of the vehicle journey. (5420)
- ▶ *Coupling of time profiles*: During the process, vehicle journeys that start exactly at the end of the coupled section are no longer deleted. (5417)

**Timetable Editor**

- ▶ *Cell selection*: In the timetable tableau, users can now select individual cells (not entire rows) again. (5389)

**COM Interface**

- ▶ *Running a Python script*: A detailed warning is now issued when terminating VISUM whilst running a Python script. (5409)

**Miscellaneous**

- ▶ *Column charts*: The graphic parameters of the column charts are now also saved to the graphic parameter and version files if no chart is open at the time. (5385)
- ▶ *ANSI*: Error and trace files are now also saved without UTF-8 Byte order markers when selecting character code=ANSI. (5403)
- ▶ *Difference network*:
  - When generating a difference network, line routes and time profiles of the two networks are now also identified as identical (and thus inserted as **one** object in the overall network) if the order differs according to the sorting by *ID* or by *name*. (5413)
  - The 2D-display can now also be used in difference networks. (3433)

**Discarded Program Crashes**

- ▶ *User-defined attributes*: VISUM no longer crashes when clicking the column header of an attribute of type *File* on tag [USER] in order to activate dialog box *Open file*. (5357)
- ▶ *Active protocol*: VISUM no longer crashes
  - if a mode that is referred to by a demand segment is deleted. (5373)
  - when copying a line route with a time profile that has a reference item which ceases to exist when shortening the course in the process. (5367)
- ▶ *Create opposite direction*: In rare cases, creating the opposite direction of line route courses traversing directed stop points on links caused a program crash. This bug could be fixed. (5363)
- ▶ *Shortest path search*: VISUM no longer crashes when deleting network objects located on the current course of a shortest path. (5379)
- ▶ *Timetable Editor*: VISUM no longer crashes when increasing the widths of columns after editing the overall window sectioning. Nor do asynchronous rows emerge in the upper left and right window sections. (5388)
- ▶ *COM*: The COM methods *Turns.ItemByKey* and *Turns.ExistsTurnByKey* now cause a regular COM error if one of the transferred nodes does not exist in the network. The situation led to a crash in the past. (5399)
- ▶ *Legend Wizard*: The program no longer crashes
  - when switching from the legend wizard to the execution of a python script within VISUM. (5400)
  - on tab 4 of the Legend Wizard in case of an empty network and empty legend parameters (5408)

**Procedures**

- ▶ *Blocking-back model:*
  - *Remaining capacity:* If all downstream turns of a link are blocked, the outgoing capacity of the link equals 0, i.e. the traffic cannot exit the link. However, if at least one open destination connector starts at the ToNode of the link, the outgoing capacity is now set to infinite, so that traffic can flow freely to the destination connector. (5374)
  - *Turn volumes:* In cases where the volume of a turn had been reduced by the blocking-back calculation, the amount deducted from the turn volume used to be too large. Values at links and connectors were yet accurate. The error has been fixed. (5377)
  - *Node capacity:* is now also regarded in phase 2 of the computation (applies only if Cap from "Link and Node capacity" or from "Turn and Node capacity" is active) (5407)

**Network Editor**

- ▶ *Line routes dialog:* The reference journey dropdown box on tag [TIME PROFILES] is now visible right away in any case. (5323)
- ▶ *Refresh:* The network is now automatically refreshed when exiting the *Multiselect edit* dialog box so that any modified attributes are displayed correctly right away. (5382)
- ▶ *Link length and link run time of line routes and system routes:* These attributes are now also issued accurately if certain links are only partly traversed (because the route starts or ends at a link stop point). (5354)
- ▶ MULTISELECT - EDIT: The *Formula* dialog box can now be closed correctly though no object was edited. (5384)

**Network Graphics**

- ▶ *Network scale:* In the graphic parameters, the network scale 1:2500000 can now also be used for a zoom level-dependent display. (5376)
- ▶ *Reading graphic parameters:* When reading selected parameters, the parameters of the legend are now only read in if "Legend" is actually selected in the list. (5371)
- ▶ *Scaling images:* Image size (bmp, jpg) is now computed correctly for Printing and Preview. (5404)

**Matrix Editor**

- ▶ *Code files:*
  - can be imported again. (5406)
  - For the gravity calculation, code files may now contain blank lines or comments at the end. (5405)

**COM Interface**

- ▶ *AttValue:* A detailed error message is now issued if the Save command fails (e.g. due to the fact that an attribute is not editable). (5366)
- ▶ *Alternative Iterator:* VISUM now offers a new iterator method to run network object containers via COM which delivers high performance in calculating time and does without an explicit array of all network objects as required for *GetAll*. For a detailed description and examples, please refer to the COM documentation. (5337)
- ▶ *Running a script:* VISUM now also displays tooltips and status bar information in the network window when simultaneously running a python script. (5397)
- ▶ *NetPara.AttValue:* The writing access to *NetPara.AttValue("SCALE")* now also correctly considers the current system of units. (5396)

**Export Interfaces**

- ▶ *VISSIM-/Synchro-Export:* The attribute interface (VISSIM/Synchro parameter files) was updated (5316)

**Add-Ons**

- ▶ *LineCosting:* When links are only partly traversed, this is now always taken into account when calculating time or distance-based indicators (like ServiceKm or EmptyTime) by precise territory. This modification is only relevant in the occurrence of link stop points in the network. (5380)

**Miscellaneous**

- ▶ *Reading incomplete line routes:* A sequence like node A - undirected stop point on link B - node A is now routed correctly; a line route of that type will no longer be discarded after reading. (5362)
- ▶ *POI/GIS filters:* Filter criteria of POI and GIS categories are now permanently saved for each category. (4829)

**Discarded Program Crashes**

- ▶ *PuT assignment - timetable-based*: The program no longer freezes when opening the parameter dialog of the assignment after altering the analysis time period in such a way that the assignment period of a procedure becomes invalid. (5344)
- ▶ *Generating system routes*: VISUM no longer crashes if there are line route items between two stops either with or without zigzag routing before the end stop. (5346)
- ▶ *COM*: Crashes no longer occur when calling VISUM via option *-reg*. (5356)

**Network Editor**

- ▶ *Shifting a stop point on a link*: The line route lengths are now also adjusted correctly if the shifted stop point is the start stop point of the line route. (5345)

**Network Graphics**

- ▶ *Polygons*: The drawing of polygons with a broken line has been accelerated. (5324)

**Attribute Interface**

- ▶ *Queue length*: References to link attribute *Queue length (...)* contained in a graphic parameters file are no longer reset to *Queue length (AP)* when reloading the file. (5349)

**Miscellaneous**

- ▶ *Saving versions*: The additional memory requirements have been reduced drastically. (5338)
- ▶ *Reading versions*: Invalid min./max. limits of user-defined attributes are now automatically adjusted. (5343)
- ▶ *Difference network*: Zones with identical numbers are now always identified in a difference network. So far, the program identified zones of the same type only. The type, however, should be irrelevant in this instance, just as it is the case for all other network objects. (5350)
- ▶ *Column chart*: When opening a second column chart, VISUM now uses the same size and layout of the existing window. (5351)
- ▶ *Windows 2000*: VISUM now also supports Windows 2000 if *CodeMeter* has not been started as a service beforehand. (5294)
- ▶ *Reading line blocks additionally*: The additive reading of block items in combination with option *Overwrite object* works properly again. (5348)

**Discarded Program Crashes**

- ▶ *Drawing flow bundles*: VISUM no longer crashes while drawing flow bundle bars if the section contains polygons with over 2048 points. (5317)
- ▶ *Difference network*: If a difference network cannot be opened (e.g. due to mismatching PuT directions), VISUM no longer crashes upon display of the respective message. (5313)

**Network Editor**

- ▶ *SINGLESELECT NODES - [LINK ORIENTATIONS]*: Following alterations of orientations, the program now always discards any resulting faulty topology. (5315)
- ▶ *TSys selection*: When editing TSysSets via *MULTISELECT EDIT - CONSTANT* or when filtering for TSysSets, users can now select only those TSys which actually make sense regarding the respective network object, e.g. just PuT line TSys at stop points or any TSys but Walk at turns. (5064)
- ▶ *Copying a line*: VISUM now also includes the main line reference when copying a line. (5322)
- ▶ *Coupling sections without coupled time profiles*: are now deleted at the end of all read operations (version & network files). (5318)
- ▶ *Zones*: The use of connector shares now also works correctly if the total of weights over all connectors exceeds  $2^{31} = 32768$  at a zone. (5335)

**Network Graphics**

- ▶ *Printing*: Background items on "old" legends are printed correctly again. (5309)

**COM Interface**

- ▶ *Go to*: In a Go To loop, the current counter can now also be accessed via COM. The attribute is called *CurrentCounter*. It is part of the attribute interface of procedure "Go to the operation". (5310)

**Add-Ons**

- ▶ *LineCosting - Defining a territory*: In the past, links with a ToNode that exactly coincided with the position of the FromNode and that were located in the enclave of a territory, used to be considered as part of the territory. This led to falsified results in the calculation of territory indicators. The error has been fixed. The specified situation has yet occurred very rarely in practice. (5319)

**Miscellaneous**

- ▶ *Save version*: Query "Save version?" is only issued if changes have occurred since saving the version last. (5314)
- ▶ *Read XML file*: Attribute *PrTVolumesPara.NumDecPlaces* is always imported correctly when reading XML files. The faulty performance so far sometimes led to the unnecessary rejection of assignment results when reading in XML files. (5321)
- ▶ *Difference networks*: Problems caused by a memory shortage no longer occur when repeatedly opening difference networks. Even before loading a difference network, the current network is now entirely deleted. (5334)