

TRANSIMS Version 4.0

February 1, 2007 Release

Change Log edited: 2/1/2007

SysLib

Summary output class was modified to limit calculated speeds to 0.5 meters per second or greater.

The diurnal file class now recognizes COUNT and VOLUME as optional distribution fields.

A bug in an error message within the Lane-Use read service was fixed.

The link and lane connectivity services were updated to properly adjust bearing and turn types when custom compass points are used and turn type or bearing fields are not fully populated.

The default constructor for Static_Service was changed from 100 to 0 to avoid redefining the traveler scaling factor when classes are derived from the service. This affected a data class in AdjustPlans.

Router 4.0.17

The logic for integrating fixed turn penalties with turn delays from the link delay file was refined to work better with mixed link delay files (i.e., subarea simulations) and negative turn delays. UTURN_PENALTY key was changed to U_TURN_PENALTY.

Microsimulator 4.0.18

The modified summary output class was included to avoid excessive turning movement delays. Additional information was added to several error messages.

LinkDelay 4.0.5

Added the option for time of day smoothing to the link and turn delays and volumes. The new keys are SMOOTH_GROUP_SIZE, PERCENT_MOVED_FORWARD, PERCENT_MOVED_BACKWARD, NUMBER_OF_ITERATIONS, and CIRCULAR_GROUP_FLAG,

ArcDelay 4.0.0

New program to visualize link and turning movement delay and performance data.

ArcSnapshot 4.0.3

Selection using a subarea polygon (shapefile) was added.

SmoothData 4.0.3

Added the option to provide a diurnal distribution file to initialize the data allocation prior to smoothing. Adjusted the number of iterations and group size constraints as a function of the output increment. Improved the field number interface. Added REPLICATE_FIELDS_FLAG

to copy the field names and types from the input file to the output file. The program now processes multiple smooth groups within the single file.

Validate 4.0.8

The custom compass point corrections were integrated for detailed link and turning movement reports. The turning movement report now utilizes the lane connectivity type field and display differences properly.

PlanSelect 4.0.8

Turning movement delays are now included in the travel time skim calculation. Processing for link-based plan files has been added. The travel time calculation with turning delays was made more consistent with the Router.

AdjustPlans 4.0.5

Turning movement delays are now included in the travel time calculations. The updated Static Service was included in the travel data class to fix a problem with traveler scaling factors that were not 100. Added NEW_HOUSEHOLD_LIST key to output partitioned household lists.

SubareaPlans 4.0.14

Turning movement delays are now included in the travel time calculations. Processing for link-based plan files has been added. SUBAREA_HOUSEHOLD_LIST key was added to output a partitioned household list for re-routing purposes. The travel time calculation with turning delays was made more consistent with the Router.

SubareaNet 4.0.1

Zone file processing was added. The file headers from the input files and the data fields are now copied to the output files to avoid problems caused by user-defined file structures or changes in file formats.

ArcNet 4.0.9

A bug was fixed in the lane-use shapefile construction. Protection against timing plans with missing phasing plan records was added.

PlanSum 4.0.16

The option to save turning movement data to the link delay file was added.

PlanPrep 4.0.5

SELECT_TIME_PERIODS key was added to select plan records by time of day.
CHECK_PLAN_PARTITION key was added to check for travelers in multiple partitions.

PlanTrips 4.0.5

Added NEW_HOUSEHOLD_LIST key to output partitioned household lists. Added code to generated new trip records for plans that are not in the input trip file.

HHList 4.0.0

The household list program was converted to Version 4.0 format. Optional input file types include household list, household file, trip file, and activity file.

IntControl 4.0.5

A loop problem was fixed for signals were integer rounding and minimum phase time conflicts. Protections were added for lane connectivity files that do not include fully populated Type fields.

EnhanceNet 4.0.1

Added logic to populate Type and Bearing fields if the data fields exist, but the data is zero. This enables the program to update new records that have missing data.

Documentation