

TRANSIMS Version 4.0

March 1, 2007 Release

Change Log edited: 2/28/2007

SysLib

Summary output class was modified to include enter and exit volumes from parking lots in the volume calculations. Coordinate-based link selection was included.

A new method called `Network_Copy_Header` was added to the network service to facilitate coping field headers from an input file to an output files.

A new method called `Demand_Copy_Header` was added to the demand service to facilitate coping field headers from an input file to an output files.

`MAX_DWELL` was added to the vehicle type file, data, and service structures.

The ArcView file class was modified to automatically delete spatial index files (*.sbn, *.sbx) when creating a new shapefile.

Added quotation marks around the conversion text error messages to clarify the message for null or blank strings.

The Name method within `Db_Status` was changed to `File_ID` to avoid conflicts with Name fields in custom file implementations.

The Link processing service was modified to return false when there are lanes in neither direction.

Boundary speed data, file, and service classes were added to demand processing.

The snapshot output class was enhanced to correct coordinate ranges that are improperly specified.

A pointer class and array structure was added to the data class options.

The Link Equiv class was modified to add a `Max_Group` method.

Microsimulator 4.0.20

The modified summary output class was included to minimize distortions caused by external stations and significant parking maneuvers and include coordinate-based link selection. Boundary speed processing was added to control the entry and exit vehicle speed at external stations. Enhanced the traveler output service to track transit vehicles as well as passengers. Corrections were made to the transit processing rate calculations and max dwell was added to force vehicles to leave a station even if additional passengers are waiting to board.

AdjustPlans 4.0.6

A COUNT_SCALING_FACTOR key was added to factor the counts used by the adjustment process. Screenline-based adjustment options were added. The volume calculations were expanded to include destination parking lot traffic.

IntControl 4.0.6

The Network_Copy_Header function was included to avoid field copy problems between Version3 and other formats.

SubareaNet 4.0.2

The Network_Copy_Header function was included to avoid field copy problems between Version3 and other formats.

SubareaPlans 4.0.16

File format options were added to the subarea activity location, parking, and process link files. The Network_Copy_Header and Demand_Copy_Header functions were included to enhance the field copy commands between input and output files. SUBAREA_* key names were changed to NEW_* to accommodate the copy header functions and improve key consistency with SubareaNet and other problems. The program also creates a new boundary speed file for use by the Microsimulator.

TripSum 4.0.1

Converted to Version 4.0 format. Implemented Top 100 reports for link volumes, lane volumes, and V/C ratio with lane use restrictions.

PlanSelect 4.0.9

The lane use file is now disabled when network processing is not needed. Selection based on XY coordinates have been added.

ArcDelay 4.0.1

A zero time increment will now summarize the time range into a single output file. The units for the select time increment was changed from seconds to minutes.

PlanSum 4.0.17

Minor adjustments in the time period estimates for the origin and destination parking lot link volume.

TPPlusNet 4.0.0

Converted to Version 4.0 format and added conversion script logic.

Validate 4.0.9

The link group reports were modified to utilize the Max_Group method to permit non-sequential group codes. The TURN_LEVEL_OF_SERVICE report was added to estimate planning level of service differences between estimated and observed turn movements. Processing of the traffic signal files was added to provide the support data for this report.

Progression 4.0.0

Converted to Version 4.0 format and added a link equivalence file to define progression corridors.

ConvertTrips 4.0.9

TRAVEL_TIME_FILE key was added to optionally include a zone-to-zone travel time skim file.

Documentation