TRANSIMS Version 4.0

October 1, 2007 Release

Change Log edited: 9/24/2007

SysLib

The Link_Direction_File class was modified to include difference fields and calculations.\

An Occupancy_File class was added to the support library.

Microsimulator 4.0.34

Cell occupancy output class was added. The keys include OUTPUT_OCCUPANCY_FILE_*, _FORMAT_*, _TIME_FORMAT_*, _TIME_INCREMENT_*, _TIME_RANGE_*, _LINK_RANGE_*, _MAX_FLAG_*, and _COORDINATES_*. Additional pointer validation checks were added. The DRIVER_REACTION_TIME, PERMISSION_PROBABILITY SLOW_DOWN_PROBABILITY, and SLOW_DOWN_PERCENTAGE keys were expanded to permit different values by facility type.

ArcSnapshot 4.0.6

The input file can now be an OCCUPANCY_FILE or a SNAPSHOT_FILE. If both keys are provided, the snapshot file will be processed. The TIME_PROCESSING_METHOD key was added to enable the program to aggregate multiple time periods from the input file. The options include AT_INCREMENT, TOTAL, and MAXIMUM. AT_INCREMENT is the default and specifies no aggregation. TOTAL sums cell occupancies and MAXIMUM keeps the increment with the greatest number of occupied cells.

ArcDelay 4.0.11

The option for processing Link Direction Files was added through keys LINK_DIRECTION_FILE and ARCVIEW_LINK_DIR_FILE. The ADD_LINK_DIRECTION_INDEX key will add the link direction index to the output Arcview file. ARCVIEW_INTERSECTION_FILE was added to summarize link delay files by intersection node. Bandwidth processing for Link Direction or Link Delay files was added through BANDWIDTH_FIELD, BANDWIDTH_SCALING_FACTOR, MINIMUM_BANDWIDTH_VALUE, MINIMUM_BANDWIDTH_SIZE, MAXIMUM_BANDWIDTH_SIZE, MAXIMUM_SHAPE_ANGLE, and MINIMUM_SHAPE_LENGTH keys.

ArcPlan 4.0.13

MINIMUM_BANDWIDTH_VALUE, MINIMUM_BANDWIDTH_SIZE and MAXIMUM_BANDWIDTH_SIZE keys were added to control the width range for bandwidth output.

PlanPrep 4.0.8

FIX_PLAN_FILE was added to enable the modeler to find and replace a sequence of node or link legs with a new sequence of nodes or links. The input file provides the leg sequences and

the percentage of occurrences that will be randomly selected for replacement. SUBAREA_PLAN_FILE and SUBAREA_PLAN_FORMAT were added to merge a subarea plan file back into the regional plan set.

ActGen 4.0.10

The distance output fields in the trip length and tour length summarizes were fixed. The vehicle allocation logic was fixed for activity patterns that drive and walk legs.

PlanSelect 4.0.18

The option for multiple coordinate selection boxes was implemented. New keys include SELECT_COORDINATES_*, SELECT_OD_COORDINATES_*, and EXCLUDE_OD_COORDINATES_*.

LinkSum 4.0.18

An initialization bug was fixed in the travel time group report. The Link Direction output with a pervious link delay file includes the difference fields.

ArcDiff 4.0.2

The program was upgraded to generate difference fields for node-based delay files in addition to link-based delay files.

PlanCompare 4.0.18

A minor bug was fixed in the percent selection logic to address large scale selections with the same percent error.

Documentation:

Microsimulator user's guide and quick reference documents.