# TRANSIMS Version 6.0 – *March 2014*

### SysLib

Refinements were implemented in the Db\_File interface to print filenames and formats correctly for Arcview files. The Arc\_Link\_File class was enhanced to accommodate the model-related constructor options. Db\_Base::Dbase\_Format methods were made virtual to enable file-specific overrides. Db\_Header:Open method was modified to ignore def files for unformatted file formats. The formatting of time fields in dBase and ArcView files was enhanced to write seconds, minutes, and hours as numbers with decimal points rather than text strings. Text strings are still used for other time formats.

### File\_Data\_Service

The link file interface was enhanced to read and write Arcview formats more directly. Virtual Dbase\_Format processing was added to the Route\_Nodes\_Files class. Write\_Route\_Nodes Put method for TPPlus files was modified to set the oneway flag based on a field value of 2 rather than 1 to avoid problems caused by missing fields that return zero. ROUTE\_NODE\_OFFSET\_FLAG, ROUTE\_NODE\_RUN\_TIME\_FLAG, ROUTE\_NODE\_PATTERN\_FLAG,ROUTE\_NODE\_DWELL\_FLAG, ROUTE\_NODE\_TYPE\_FLAG, ROUTE\_NODE\_LEG\_TIME\_FLAG, and ROUTE\_NODE\_SPEED\_FLAG keys were added to provide general control overall all of the optional output fields in a Route\_Nodes file.

### Simulator\_Service

The temporal update components were moved into a Sim\_Update\_Step class to facilitate parallel processing and encapsulate network updates (lane-use and turn prohibitions), signal updates (new timing plans and phase states), and transit runs. Performance file process was updated and a bug was fixed in pocket lane numbering. Corrections were made to the transit vehicle loading logic. Various processing improvements were implemented.

### Router\_Service

A bug was fixed in the mode code assigned to a stop that is both the end of one transit leg and the beginning of the next leg for arrival time path building.

### RoutePrep 6.0.11

The logic for opening Input\_Route\_Files was modified to use the new format logic that includes model types in addition to file format types. This was needed to open and correctly process TPPlus transit route files.

### ConvertTrips 6.0.5

A bug was fixed processing a skim file that includes fewer zones than the trip file.

### TransitNet 6.0.7

A warning message and protection was added for routes with less than two stops.

### NetPrep 6.0.13

A bug was fixed in setting the Z coordinate for link shape file inputs. The shape correction logic was expanded to include shape smoothing and length ratio checks. The speed units were corrected for input files that define speed units in a def file. TRANSIT\_PERIOD\_OFFSETS and PERIOD\_TRAVEL\_TIMES keys were removed. This functionality was moved to the File\_Service class to enable general control of all fields options within the Route\_Nodes file.

### ArcRider 6.0.9

Counts of the number of stops were added to the line group ridership files. A bug was fixed for bandwidth applications that do not include a line group file. Maximum and minimum run time fields were added to the line demand and line group shapefiles.

### LineSum 6.0.2

A bug was fixed in the line report when all lines for a mode were specified.

### ArcNet 6.0.2

Period average run times were added to the transit route shapefile.

### ArcPlan 6.0.5

Transit path shapes were corrected for paths without walk details and where transfers occur at a common stop. Additional drawing logic was added to properly display recently added plan details related to access links. The Num\_Legs field was modified to write the leg number rather than the total number of legs. The Leg\_ID field was changed to post the transit route number on transit legs. All other leg types post the number of links or legs included in the mode.

### FileFormat 6.0.2

A bug was fixed in reading the control keys for multiple files.

### NewFormat 6.0.7

A bug was fixed in processing a plan file when a trip file is not created.

### Router 6.0.23

STORE\_TRIPS\_IN\_MEMORY key was added to enable the program to read the trips into memory during the first convergence iteration so the data can be read from memory rather than the trip file for subsequent iterations. Incorporate the Router\_Service update.

### PathSkim 6.0.6

Incorporate the Router\_Service update.