

## **TRANSIMS Version 4.0**

### ***July 2008 Release***

Change Log edited: 6/30/2008

#### **SysLib**

A vehicle ID problem type was added to the Problem Service.

The default size of the zone file zone field was increased from 5 to 10 digits.

An additional reporting line was included in the time difference output class to print the total difference between the two datasets. This is intended for use as a gap convergence statistic. It is generated by EventSum and/or PlanCompare as part of a user equilibrium process.

#### **Validate 4.0.15**

The facility type labels were corrected.

#### **PUMSPrep 4.0.1**

New program to process PUMS data for input to PopSyn. CONVERSION\_SCRIPT key and CONVERSION\_SCRIPT and CONVERSION\_STACK reports were added to enable the user to implement calculations or select population attributes to post on the household file. The field logic was also modified to enable the user to add blank fields to the household and/or population files to store program calculations.

#### **SF3Prep 4.0.0**

New program to process Census SF3 files for input to PopSyn.

#### **SF3Dictionary 4.0.0**

Software development utility to extract the table index from the SF3 documentation.

#### **ArcDelay 4.0.14**

LINK\_DATA\_FILE and ARCVIEW\_LINK\_DATA\_FILE keys were added to enable processing of two-way link data files.

#### **ArcDiff 4.0.4**

The logic was expanded to include processing of ArcView link data file.

PERCENT\_DIFFERENCE\_FLAG key was added to include a percent difference field as well as a difference field.

#### **Router 4.0.44**

ARCVIEW\_PROBLEM\_DUMP, PROBLEM\_DUMP\_TYPE, and PERCENT\_PROBLEMS\_DUMPED keys were added to dump an ArcView image of the state of the path building when a problem was encountered. The vehicle ID problem type was added.

### **ZoneData 4.0.1**

New program to add data fields and join polygons to zone files. Additional NULL pointer checks were added.

### **LocationData 4.0.7**

NEW\_SUBZONE\_FIELD, MAX\_SUBZONE\_DISTANCE, SUBZONE\_DATA\_FILE, SUBZONE\_DATA\_FORMAT, SUBZONE\_DATA\_FIELD, NEW\_LOCATION\_FIELD, DATA\_FILE, DATA\_FORMAT, DATA\_JOIN\_FIELD, LOCATION\_JOIN\_FIELD, and BOUNDARY\_POLYGON keys were added to provide the option to specify each of these data processing options without the file group extension (i.e., \_#). Additional NULL pointer checks were added.

### **PopSyn 4.0.6**

HOUSEHOLD\_FILE, POPULATION\_FILE, and VEHICLE\_FILE keys were added to enable the program to add records to existing files. LOCATION\_WARNING\_FLAG key was added to disable warning messages for zones beyond the TRANSIMS model area. The Population Report title was corrected. The State-PUMA list was modified to permit numeric state codes as well as state abbreviations.

### **SubareaNet 4.0.5**

Additional conditional checks were added to the subarea transit network logic to address problems caused by routes that exit the subarea on the subarea boundary and express routes that exit and re-enter the subarea without making a stop outside the subarea or a stop within the subarea.

### **SubareaPlans 4.0.22**

The corrections to the subarea transit network logic developed for SubareaNet 4.0.5 were integrated into SubareaPlans

### **ActGen 4.0.20**

Logic was added to convert the time formats for the records copied from the input to the output activity file. NEW\_HOUSEHOLD\_MATCH\_FILE was added to output the household match data to a tab-delimited text file. MODE\_LENGTH\_SUMMARY and MODE\_PURPOSE\_SUMMARY reports were added to summarize the length and travel time statistics by trip mode.