

TransimsNet - Quick Reference

Version 5.0.8



Usage

TransimsNet [-flag] [control_file]

Optional Flags:

- Q[uiet] = execute without screen messages
- H[elp] = show program syntax and control keys
- C[ontrol] = create/update a default control file
- K[eyCheck] = list unrecognized control file keys
- P[ause] = pause before exiting
- N[oPause] = never pause before exiting
- D[etail] = execute with detailed status messages
- X[ML] = write an XML file with control keys

Purpose

1. Synthesize TRANSIMS network files from generic node and link information. Node, Link, Activity Location, Parking, Process Link, Lane Connectivity, and Pocket Lane files are generated by the program.
2. The program also generates Sign and Signal Warrant files that can be used as input to the IntControl program to synthesize the TRANSIMS Unsignalized Node, Signalized Node, Timing Plan, Phasing Plan, Detector and Signal Coordinator files.
3. Copy an existing network and update or delete network components associated with selected links or nodes.

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
TITLE	Text		
REPORT_FILE	File		filename[_partition][.prn]
REPORT_FLAG	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
PROJECT_DIRECTORY	Path		
MODEL_START_TIME	Time	0:00	>= 0 [seconds], 0.0 [hours], 0:00
MODEL_END_TIME	Time	24:00	> [model_start_time]
UNITS_OF_MEASURE	Text	METRIC	METRIC, ENGLISH
RANDOM_NUMBER_SEED	Int.	0	0 = computer clock, > 0 = fixed
MAX_WARNING_MESSAGES	Int.	100000	>= 0
MAX_WARNING_EXIT_FLAG	Bool	TRUE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Configuration Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
MAX_PROBLEM_COUNT	Int.	0	>= 0
NUMBER_OF_THREADS	Int.	1	1..24
TRANSIMSNET_REPORT_*	Text		program report name

System File Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
<input checked="" type="checkbox"/> NODE_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> ZONE_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> LINK_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_LINK_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_POCKET_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_CONNECTION_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_PARKING_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_LOCATION_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_SIGN_FILE	File		[project_directory]filename
<input checked="" type="checkbox"/> NEW_SIGNAL_FILE	File		[project_directory]filename
SHAPE_FILE	File		[project_directory]filename
POCKET_FILE	File		[project_directory]filename
LANE_USE_FILE	File		[project_directory]filename
CONNECTION_FILE	File		[project_directory]filename
TURN_PENALTY_FILE	File		[project_directory]filename
PARKING_FILE	File		[project_directory]filename
LOCATION_FILE	File		[project_directory]filename
ACCESS_FILE	File		[project_directory]filename
SIGN_FILE	File		[project_directory]filename
SIGNAL_FILE	File		[project_directory]filename
NEW_NODE_FILE	File		[project_directory]filename

System File Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NEW_ZONE_FILE	File		[project_directory]filename
NEW_SHAPE_FILE	File		[project_directory]filename
NEW_LANE_USE_FILE	File		[project_directory]filename
NEW_TURN_PENALTY_FILE	File		[project_directory]filename
NEW_ACCESS_FILE	File		[project_directory]filename

File Service Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
NOTES_AND_NAME_FIELDS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Projection, Smooth Data, Difference Data Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
INPUT_COORDINATE_SYSTEM	List		LATLONG, DEGREES/MILLION_DEGREES or STATEPLANE/UTM, code, FEET/METERS/MILES/KILOMETERS
INPUT_COORDINATE_ADJUSTMENT	List		X Offset, Y Offset, X Factor, Y Factor
OUTPUT_COORDINATE_SYSTEM	List		LATLONG, DEGREES/MILLION_DEGREES or STATEPLANE/UTM, code, FEET/METERS/MILES/KILOMETERS
OUTPUT_COORDINATE_ADJUSTMENT	List		X Offset, Y Offset, X Factor, Y Factor
OUTPUT_XYZ_SHAPES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
OUTPUT_XYM_SHAPES	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
DEFAULT_LINK_SETBACK	Dec.	7.5 meters	0..30 meters
DEFAULT_LOCATION_SETBACK	Dec.	30 meters	0..100 meters
MAXIMUM_CONNECTION_ANGLE	Int.	120 degrees	90..180 degrees
ADD_UTURN_TO_DEAD_END_LINKS	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N
SIGNAL_ID_AS_NODE_ID	Bool	FALSE	TRUE/FALSE, YES/NO, 1/0, T/F, Y/N

Control Keys

REQ? KEY	TYPE	DEFAULT	VALUE RANGES
EXTERNAL_ZONE_RANGE	List	0	0..10000
EXTERNAL_STATION_OFFSET	Int.	30 meters	0..100 meters
ZONE_BOUNDARY_FILE	File		[project_directory]filename
ZONE_FIELD_NAME	Text		ZONE, TAZ, Z, ID
POCKET_LANE_WARRANT_*	Text		FROM, TO, AT, TYPE, LENGTH meters, LANES
TRAFFIC_CONTROL_WARRANT_*	Text		MAIN, OTHER, AT, TYPE, SETBACK meters, GROUP
FACILITY_ACCESS_WARRANT_*	Text		TYPE, AT, SETBACK meters, MIN_LEN meters, MAX_PTS
PARKING_DETAILS_WARRANT_*	Text		AT, TIME, USE, IN seconds, OUT seconds, HOURLY cents, DAILY cents
STREET_PARKING_WARRANT_*	Text		TYPE, AT, TIME
UPDATE_NODE_RANGE	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
UPDATE_LINK_RANGE	List	ALL	e.g., 1, 2, 4..10, 100..200, 300
UPDATE_NODE_FILE	File		[project_directory]filename
UPDATE_LINK_FILE	File		[project_directory]filename
DELETE_NODE_RANGE	List	NONE	e.g., 1, 2, 4..10, 100..200, 300
DELETE_LINK_RANGE	List	NONE	e.g., 1, 2, 4..10, 100..200, 300
DELETE_NODE_FILE	File		[project_directory]filename
DELETE_LINK_FILE	File		[project_directory]filename
LINK_DETAIL_FILE	File		[project_directory]filename

Notes

Each '_FILE' key has a corresponding '_FORMAT' key. The following file formats can be used for input and output files.

TEXT, BINARY, FIXED_COLUMN, COMMA_DELIMITED, SPACE_DELIMITED, TAB_DELIMITED, CSV_DELIMITED, DBASE, SQLITE3, VERSION3