public_link

2019 / Tokyo

Overview

Link data of Tokyo pedestrian road, train and bus network.

License

Use is permitted only for the 2025 Summer Course on Behavior Modeling in Transportation Networks.

Data Column Specification

Column Name	Data Type	Description
LinkID	`Int64`	Link Number the 10000000s: Walking Link (DRM) the 20000000s: Railroad Link the 30000000s: Bus Link the 40000000s: Railroad Station Walking NW Connector the 50000000s: Bus Stop Walking NW Connector the 100000000s: Walking Link (Toyosu Detailed Network)
route ID	`Int64`	Route number
operator name	`String`	For bus links, enter the bus operator's name. For rail links, enter the rail operator's name. For walking links, enter expressway, national highway, prefectural road, city road, or other. For car links, enter the road type in the first digit and the road administrator in the tenth digit.
route name	`String`	For buses, route number For trains, railway line name For roads, road line name For car links, route number
link type code	`Int64`	1: Walking Link (W) DRM Walking DRM links within the Toyosu area are set to 0 with directional restrictions. 2: Railroad Link (R) 3: Bus Link (B) 10: Toyosu Pedestrian Link (WD)

Column Name	Data Type	Description
		11: Walking Link Mesh Connector Link (WW) Set between DRM boundary nodes 13: Walking Link Toyosu Detailed Net and DRM Connector Link (WDW) 14: Toyosu Station Link (WT) 21: Walking to Railroad Station Connector Link (RC_ON) Basic fee charged, waiting time required 22: Railroad Station to Walking Connector Link (RC_OFF) No basic fee charged, no waiting time 23: Station to Railroad Transfer Link (TS_ON) No basic fee charged, waiting time required 31: Walking to Bus Stop Connector Link (BC_ON) Basic fee charged, waiting time required 32: Bus Stop to Walking Connector Link (BC_OFF) No basic fee charged, no waiting time
link type	`String`	Name corresponding to link type code Example) If the link type code is 1...W
morning service interval (min)	`Int64`	Enter the interval in minutes
daytime service interval (min)	`Int64`	Enter the interval in minutes
holiday service interval (min)	`Int64`	Enter the interval in minutes
speed (km/h)	`Float64`	Link's movement speed
length (km)	`Float64`	Link length
direction restrictions	`String`	One-way link or two-way link 0: No access 1: Two-way link 2: One-way link (from source node to destination node) 3: One-way link (from destination node to source node)
turn restrictions	`Int64`	If the direction link for link A is link B, and the product of the turn restriction values for link A and link B is 4, then the turn restriction
fare code	`Int64`	0: No charge link 1: 1 or more charge link See price code table
Fare system	`Int64`	See the fee code table
Base fare	`Int64`	See the fee code table

Column Name	Data Type	Description
Distance-based fare	`Float64`	See the fee code table
Pavement structure code	`Int64`	0: Unknown... Designated outside Toyosu 1: Crosswalk 2: Crossing link without crosswalk 3: Pedestrian bridge 4: Inside station 5: Underground walkway 6: At-grade walkway 7: Walkway over bridge 8: Promenade in park 9: Public open space -94: Corner of intersection (set width code based on the main direction of the intersecting road) -96: Stairs -97: No shoulder (road without sidewalk or shoulder) -1: Unknown (set for construction areas around Harumi)
Pavement width code	`Int64`	0: Unknown (not surveyed) 1: No sidewalk 2: Less than 2m 3: 2m-3.5m 4: 3.5m-4.5m 5: 4.5m or more
Station layout code	`Int64`	0: Links outside the station 1: Stairs 2: Escalators 3: Elevators 4: Ticket gates 5: Passageways 6: Dummy
3D structure	`Int64`	-3: 3rd basement floor -2: 2nd basement floor -1: 1st basement floor 0: Above ground 1: 1st above ground 99: Unknown (uninvestigated)
ONodeID	`Int64`	Starting node number Under 2000: Toyosu pedestrian node the 10000000s: Pedestrian node the 20000000s: Railroad node the 30000000s: Bus node
ONodeName	`String`	Starting node name ONode Type 1 (for walking): DRM mesh + node number ONode Type 2 (for trains): Train station name ONode Type 3 (for buses): Bus stop name
ONodeLat	`Float64`	Origin coordinates World Geodetic System Latitude
ONodeLon	`Float64`	Origin coordinates World Geodetic System Longitude
DNodeID	`Int64`	End node number

Column Name	Data Type	Description
DNodeName	`String`	End point node name
DNodeLat	`Float64`	End point coordinates World Geodetic System Latitude
DNodeLon	`Float64`	End point coordinates World Geodetic System Longitude

---

Hash Value

7538ea0f4410e5d65dcf8f83854e624a6c2a8426bcdd2e234b060087325b415d

Last Updated : 2025-09-21 17:50:23