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<u>Data Specification for Traffic Data collected by</u> <u>Traffic Detectors Installed at Smart Lampposts</u>

Traffic Speed, Volume and Road Occupancy

Data structure of the XML file for Traffic Speed, Volume and Road Occupancy is as follows:

Item	Data Type	Description	Coding
date	date	Date of data	yyyy-mm-dd
periods	period	Two 30s-interval included	

Details about Data Type "period"

Item	Data Type	Description	Coding
period_from	time	Timestamp of data period starts	HH:mm:ss
period_to	time	Timestamp of data period ends	HH:mm:ss
detectors	detector	List of detector	

Details about Data Type "detector"

Item	Data Type	Description	Coding	
detector_id	String	ID of the detector		
direction			1. North	
			2. East	
			3. South	
	string	Direction of the detector	4. West	North East South
	string	Direction of the detector	5. North Eas	
			6. South Eas	st
			7. North We	est
			8. South We	EastSouthWestNorth EastSouth EastNorth West
lanes	lane	List of each lane item		

Details about Data Type "lane"

Item	Data Type	Description	Coding	
lane_id	string	Since there are 4 lanes, 3 lanes and 2 lanes carriageway, different output will be generated depends on the number of lanes on the carriageway	- With 4 Lanes 1. Fast Lane 2. Middle Lane 2 3. Middle Lane 1 4. Slow Lane - With 3 Lanes 1. Fast Lane 2. Middle Lane 3. Slow Lane - With 2 Lanes 1. Fast Lane 2. Slow Lane - With 1 Lane 1. Fast Lane	
speed	int	Traffic speed of lane	In km/h	
Occupancy*	int	Occupancy of lane	In percentage (%)	
Volume	int	Traffic volume of lane		
sd	decimal	Standard deviation of speed	Rounded to the nearest 1 decimal places	
valid	string	Data validity Detector Online: Y, Detector Offline: N	Y/N	

^{*}Occupancy is the percentage of time a zone is occupied by a vehicle

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Data structure of the CSV file for Locations of Traffic Detectors is as follows:

Item	Data Type	Description	Coding	
Device_ID	string	ID of the detector	AIDxxxxx	
District	string	18 District Name	 Central & Western Eastern Islands Kowloon City Kwai Tsing Kwun Tong North Sai Kung Sha Tin Sham Shui Po Southern Tai Po Tsuen Wan Tuen Mun Wan Chai Wong Tai Sin Yau Tsim Mong Yuen Long 	
Road_EN	string	Road Name in English		
Road_TC	string	Road Name in Traditional Chinese		
Road_SC	string	Road Name in Simplified Chinese		
Easting	integer	X Coordinate of the detector in HK1980 Grid		
Northing	integer	Y Coordinate of the detector in HK1980 Grid		
Latitude	decimal	Latitude of the detector		
Longitude	decimal	Longitude of the detector		
Direction	string	Direction of the detector	 North East South West North East 	

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			6.	South East
			7.	North West
			8.	South West
Rotation		Direction of the detector in	in	
	string	degree		

Response Code:

HTTP code	Definition
200	Success.
400	Bad Request.
500	Internal Server Error.
503	The server is currently unavailable.