

Data Specification for Address Framework Spatial Data Theme

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1 Summary

CSDI address dataset is available in GeoJSON [RFC7946] format, a format for encoding geographic data structures using JavaScript Object Notation (JSON) [RFC7159]. This document provides the data specification of the address dataset.

2 Schema Descriptions

An address record is represented as a GeoJSON Feature which is a spatially bounded entity containing a Geometry object and additional properties. Address records are represented as GeoJSON FeatureCollection which is an object containing an array of Feature objects. The members of the Geometry object and additional properties are described in the following sections.

2.1 Element Geometry

The Geometry element following the GeoJSON standard for geo-spatial related information:

Element	Type	Description
Type	String	Type of Geometry. Value is “Point”
Coordinates	Array	WGS 84 Coordinate of CSDI GeoJSON structured address

2.2 Element Properties

The Properties element follows the GeoJSON standard for address related information:

Element	Type	Description
Northing	Number	Northing value of HK1980 Grid Coordinates
Easting	Number	Easting value of HK1980 Grid Coordinates
Address	Object	Address information container of structured address

2.3 Element Address

The Address element of Properties element contains the following element:

Element	Type	Description
PremisesAddress	Object	Contain address in both Chinese and English languages, Building Common Spatial Unit (CSU) Information and GeoAddress of structured address

2.3.1 Element PremisesAddress

The PremisesAddress element of Address element contains the following elements:

Element	Type	Description
BuildingCsuInformation	Object	Building CSU information
ChiPremisesAddress	Object	Chinese Address information
EngPremisesAddress	Object	English Address information
GeoAddress	String	GeoAddress associated to Address2D record

2.3.1.1 Element BuildingCsuInformation

The BuildingCsuInformation element of PremisesAddress element contains the following element:

Element	Type	Description
CsuId	String	Building CSU ID, a unique and persistent identifier for on-ground buildings, formed by concatenating Geo Ref No, Polygon Type and Record Creation Date

2.3.1.2 Element ChiPremisesAddress

The ChiPremisesAddress element of the PremisesAddress element contains the following elements:

Element	Type	Description
Chi3dAddress	Array	Floor and unit information
ChiBlock	Object	Block information
BuildingName	String	Building name
ChiEstate	Object	Estate information
ChiVillage	Object	Village information
ChiStreet	Object	Street information
ChiDistrict	String	District Council district name
Region	String	Region of values either 香港, 九龍 or 新界

- a. Element Chi3dAddress (For Public Housing buildings of the Hong Kong Housing Authority only)

The Chi3dAddress element of ChiPremisesAddress element contains the following elements:

Element	Type	Description
ChiUnit	Object	Unit of address
ChiFloor	Object	Floor of address

- a(i). Element ChiUnit

The ChiUnit element of Chi3dAddress element contains the following elements:

Element	Type	Description
UnitDescriptor	String	Unit descriptor in Chinese (e.g. ‘室’, ‘舖’)
UnitNo	String	Unit number, including any non-numeric parts (e.g. ‘A1’, ‘3C’)
UnitPortion	String	Unit portion in Chinese (e.g. ‘東部’, ‘及天台’)

Examples

Elements	Example 1 “2114 室”	Example 2 “3C 舖”	Example 3 “2C 室 及天台”
UnitDescriptor	室	舖	室
UnitNo	2114	3C	2C
UnitPortion	null	null	及天台

a(ii). Element ChiFloor

The ChiFloor element of Chi3dAddress element contains the following elements:

Element	Type	Description
FloorNum	Number	Floor number, used only when the floor information is a numeric value.
FloorDescription	String	Chinese floor description, used only when the floor information contains non-numeric part e.g. ‘大堂層’, ‘地下上層’, ‘天台’, ‘平台’, ‘二樓’, ‘3樓’

Examples

Element	Example 1 “5 樓”	Example 2 “大堂層”	Example 3 “2 樓平台”
FloorNum	5	Null	2
FloorDescription	樓	大堂層	2 樓平台

b. Element ChiBlock

The ChiBlock element of ChiPremisesAddress element contains the following elements:

Element	Type	Description
BlockDescriptor	String	Block descriptor e.g. ‘座’, ‘洋房’
BlockNo	String	Block number e.g. ‘1’, ‘一’, ‘東’

Examples

Elements	Example 1 “北座”	Example 2 “12 座”	Example 3 “1 洋房”
BlockDescriptor	座	座	洋房
BlockNo	北	12	1

c. Element ChiEstate

The ChiEstate element of ChiPremisesAddress element contains the following elements:

Element	Type	Description
EstateName	String	Estate Name
ChiPhase	Object	Phase information

c(i). Element ChiPhase

The ChiPhase element of ChiEstate Element contains the following elements:

Element	Type	Description
PhaseName	String	Phase name of the estate (e.g. ‘第一期’, ‘二期’)
PhaseNo	Number	Phase number of estate

Examples

Element	Example 1 “1 期”	Example 2 “第 2 期”
PhaseName	1 期	第 2 期
PhaseNo	1	2

d. Element ChiVillage

The ChiVillage element of ChiPremisesAddress element contains the following elements:

Element	Type	Description
LocationName	String	Location name
VillageName	String	Village name
BuildingNoFrom	String	Starting building number
BuildingNoTo	String	Ending building number

e. Element ChiStreet

The ChiStreet element of ChiPremisesAddress element contains the following elements:

Element	Type	Description
LocationName	String	Location name
StreetName	String	Street name
BuildingNoFrom	String	Starting building number
BuildingNoTo	String	Ending building number

2.3.1.3 Element EngPremisesAddress

The EngPremisesAddress element of the PremisesAddress element contains the following elements:

Element	Type	Description
Eng3dAddress	Array	Floor and unit information
EngBlock	Object	Block information
BuildingName	String	Building name
EngEstate	Object	Estate information
EngVillage	Object	Village information
EngStreet	Object	Street information
EngDistrict	String	District Council district name
Region	String	Region of values either HK, NT or KLN

- a. Element Eng3dAddress (For Public Housing buildings of the Hong Kong Housing Authority only)

The Eng3dAddress element of EngPremisesAddress element contains the following elements:

Element	Type	Description
EngUnit	Object	Unit of address
EngFloor	Object	Floor of address

- a(i). Element EngUnit

The EngUnit element of Eng3dAddress element contains the following elements:

Element	Type	Description
UnitDescriptor	String	Unit descriptor in English (e.g. 'FLAT', 'SHOP', 'UNIT', 'RM')
UnitNo	String	Unit number, including any non-numeric parts (e.g. 'A1', '3C')
UnitPortion	String	Unit portion in English CE = Central, E = East, FR = Front, LF = Left, MD = Middle, N = North, NE = North-East, NW = North-West, RG = Right, RR = Rear, S = South, SE = South-East, SW = South-West, W = West, PN = (Portion), PT = (Part), RF = Roof

Examples

Elements	Example 1 “Flat 2114”	Example 2 “Shop 3C”	Example 3 “Unit 2C Roof”
UnitDescriptor	FLAT	SHOP	UNIT
UnitNo	2114	3C	2C
UnitPortion	null	null	RF

a(ii). Element EngFloor

The EngFloor element of Eng3dAddress element contains the following elements:

Element	Type	Description
FloorNum	Number	Floor number, used only when the floor information is a numeric value. Floor description in English as in full postal address can be generated by appending ‘/F’ to FloorNum.
FloorDescription	String	English floor description, used only when the floor information contains non-numeric part e.g. ‘CONCOURSE’, ‘LEVEL 1’, ‘UPPER GROUND’, ‘12A/F’, ‘G/F’, ‘ROOF’, ‘CAR PARK FLR’, ‘PODIUM’

Examples

Element	Example 1 “5/F”	Example 2 “G/F”	Example 3 “Level 2 Upper”
FloorNum	5	null	2
FloorDescription	5/F	G/F	LEVEL 2 UPPER

b. Element EngBlock

The EngBlock element of EngPremisesAddress element contains the following elements:

Element	Type	Description
BlockDescriptor	String	Block descriptor e.g. ‘BUILDING’, ‘HOUSE’, ‘BLOCK’, ‘BLK’
BlockNo	String	Block number e.g. ‘1’, ‘A’, ‘EAST’
BlockDescriptorPrecedenceIndicator	String	An indicator showing the ordering of block descriptor and block number in full English address when both are not Null, where Y = block description precedes block number (e.g. in the cases of ‘BLOCK A’ and ‘BLOCK 1’), N = block number precedes block description (e.g. in the cases of ‘NORTH BLOCK’ and ‘WEST TOWER’)

Examples

Elements	Example 1 “North Block”	Example 2 “Block 12”	Example 3 “House 1”
BlockDescriptor	BLOCK	BLOCK	HOUSE
BlockNo	NORTH	12	1
BlockDescriptorPrecedenceIndicator	N	Y	Y

c. Element EngEstate

The EngEstate element of EngPremisesAddress element contains the following elements:

Element	Type	Description
EstateName	String	Estate Name
EngPhase	Object	Phase information

c(i). Element EngPhase

The EngPhase element of EngEstate Element contains the following elements:

Element	Type	Description
PhaseName	String	Phase name of the estate (e.g. ‘PHASE I’, ‘STAGE 2’)
PhaseNo	Number	Phase number of estate

Examples

Element	Example 1 “Phase I”	Example 2 “Stage 2”	Example 3 “Elements”
PhaseName	PHASE I	STAGE 2	ELEMENTS
PhaseNo	1	2	null

d. Element EngVillage

The EngVillage element of EngPremisesAddress element contains the following elements:

Element	Type	Description
LocationName	String	Location name
VillageName	String	Village name
BuildingNoFrom	String	Starting building number
BuildingNoTo	String	Ending building number

e. Element EngStreet

The EngStreet element of EngPremisesAddress element contains the following elements:

Element	Type	Description
LocationName	String	Location name
StreetName	String	Street name
BuildingNoFrom	String	Starting building number
BuildingNoTo	String	Ending building number