Address—geocode longitude, decimal degrees XN[NN][.N(9)]

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Address—geocode longitude, decimal degrees XN[NN][.N(9)]

Identifying and definitional attributes

Metadata item type:	Data Element
Short name:	Geocode longitude decimal degrees
Synonymous names:	Longitude
METEOR identifier:	430469
Registration status:	Aged Care, Standard 30/06/2023 Community Services (retired), Standard 06/02/2012 Disability, Standard 13/08/2015 Health, Standard 05/10/2016 Housing assistance, Standard 01/05/2013
Definition:	The geographic longitude of an address point on the earth, measured in decimal degrees east or west of the Greenwich Meridian.
Data Element Concept:	Address—geocode longitude
Value Domain:	Longitude decimal degrees XN[NN][.N(9)]

Value domain attributes

Representational attributes

Representation class:	Identifier
Data type:	Geospatial
Format:	XN[NN][.N(9)]
Maximum character length:	13
Unit of measure:	Decimal degree

Collection and usage attributes

Guide for use:

The 'X' in the longitude format symbolises the designator symbol “+” or “-” and should be placed prior to the first number.

The designator symbol for longitudes east of Greenwich are positive and shall be designated by use of the plus sign (+), while longitudes west of Greenwich are negative and shall be designated by use of the minus sign (-). The Prime Meridian shall be designated by use of the plus sign (+). The 180th meridian shall be designated by use of the minus sign (-).

The format XN[NN][.N(9)] allows for 1, 2 and 3 digit longitudes (ie. degrees) with the option of 0 to 9 decimal places (i.e. decimal degrees).

Usage examples:

- +149.091360569
- +2
- -50.321-

Source and reference attributes

Submitting organisation:	Australian Institute of Health and Welfare

Origin: Standards Australia/Standards New Zealand 2008. AS/NZS ISO6709:2008—Standard representation of latitude, longitude and altitude for geographic point locations. Sydney/Wellington: Standards Australia/Standards NZ.

Standards Australia 2006. AS 4590—2006 Interchange of client information. Sydney: Standards Australia.

Data element attributes

Collection and usage attributes

Comments: Geographical coordinates (latitudes and longitudes) are the universal system for defining spatial position. A set of geographic coordinates on a datum is complete and unique, worldwide.

Positions of geographic features can be defined in space by a set of coordinates. In order for coordinates to be unique, the coordinate reference system needs to be fully defined.

A coordinate reference system is realised by a reference frame, which comprises a datum and a coordinate system.

Longitudes can also be expressed in degrees, minutes and seconds (e.g. 150° 54' 45".98), see METeOR for this related item. A conversion to decimal degrees from the degrees, minutes and seconds format can be calculated with the following formula: Decimal Degrees = Degrees + ((Minutes / 60) + (Seconds / 3600)). (REF: https://www2.landgate.wa.gov.au/slip/portal/home/Graticule.html)

Usage example: -75° 59' 32.483" converts to -75.992356389 in decimal degrees (rounded up to 9 decimal places).

Source and reference attributes

Submitting organisation: Australian Institute of Health and Welfare

Origin: Standards Australia 2006. AS 4590—2006 Interchange of client information. Sydney: Standards Australia.

Relational attributes

Related metadata references:

See also Address—geocode latitude, decimal degrees XN[N][.N(9)]
- Aged Care, Standard 30/06/2023
- Community Services (retired), Standard 06/02/2012
- Disability, Standard 13/08/2015
- Health, Standard 05/10/2016
- Housing assistance, Standard 01/05/2013

See also Address—geocode latitude, degrees minutes seconds Xd{d}{mm}{ss}{.ss}
- Community Services (retired), Standard 10/04/2013
- Disability, Standard 13/08/2015

See also Address—geocode longitude, degrees minutes seconds Xd[dd]{mm}{ss}{.ss}
- Community Services (retired), Standard 10/04/2013
- Disability, Standard 13/08/2015

Implementation in Data Set Specifications:

Address details data dictionary
Community Services (retired), Standard 06/02/2012
Disability, Standard 13/08/2015

Address geocode cluster
Health, Standard 05/10/2016

Aged care address cluster
Aged Care, Standard 30/06/2023
Conditional obligation:

Conditional on the data being known.

Dwelling address details cluster
Housing assistance, Superseded 01/05/2013
DSS specific information: Unknown values are recorded as "U".

Dwelling address details cluster
Housing assistance, Superseded 01/05/2013
Implementation start date: 28/09/2011

Indigenous Community Housing DSS 2018-
Housing assistance, Standard 10/05/2019
Implementation start date: 01/07/2018
DSS specific information:

Record unknown values as 'U'.

Indigenous community housing dwelling address details cluster
Housing assistance, Superseded 30/08/2017
Indigenous, Standard 01/05/2013
DSS specific information: Unknown values should be recorded as "U".

Indigenous community housing dwelling address details cluster
Housing assistance, Standard 30/08/2017
DSS specific information:

Unknown values should be recorded as "U".