# ISO Geodetic Registry

Item class Transformation

Name AGD66 to GDA94 [GA v1]

Item statusVALIDIdentifier705

Information source Title Geocentric Datum of Australia Technical Manual

Version 2.4

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Mapping

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Data source ISO Geodetic Registry
Remarks Defined at epoch 1994.0.

Operation version GA v1

Scope Spatial referencing

Operation accuracy 3.0 m

Source CRS AGD66 - LatLonEHt
Target CRS GDA94 - LatLonEHt

Operation method Coordinate Frame Transformation (geocentric Cartesian domain)

#### Extent

Description	Australia - onshore and offshore - mainland, Lord Howe Island, Norfolk Island, Macquarie Island. Christmas Island - onshore and offshore. Cocos (Keeling) Islands - onshore and offshore. Papua New Guinea - onshore and offshore.	
Geographic Bounding Box	West-bound longitude	96.0
	North-bound latitude	0.0
	East-bound longitude	168.0
	South-bound latitude	-56.0

### Operation parameter values

X-axis translation	-117.808 metre	
Y-axis translation	-51.536 metre	
Z-axis translation	137.784 metre	
X-axis rotation	-0.303 arc-second	
Y-axis rotation	-0.446 arc-second	
Z-axis rotation	-0.234 arc-second	
Scale difference	-0.29 parts per million	

## **ISO Geodetic Registry**

Item class OperationMethod

Name Coordinate Frame Transformation (geocentric

**Cartesian domain)** 

Item status VALID Identifier 74

Alias Coordinate Frame Transformation

Alias 7-Parameter Transformation

Alias Bursa-Wolf Transformation

Data source ISO Geodetic Registry

Remarks This method is a specific case of the Molodensky-Badekas (CF)

method in which the evaluation point is at the geocentre with

coordinate values of zero. Note the analogy with the Position Vector

transformation method but beware of the differences!

Formula Geomatics Guidance Note No 7, part 2: Coordinate Conversions and

Transformations including Formulas

#### Operation parameters

X-axis translation
Y-axis translation
Z-axis translation
X-axis rotation
Y-axis rotation
Z-axis rotation
Scale difference