# **ISO Geodetic Registry**

Item class Transformation

Name GDA2020 to WGS 84 (G1762) [GA v1]

Item statusVALIDIdentifier563

Information source Title Geocentric Datum of Australia 2020 Technical

Manual Version 1.2

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Intergovernmental Committee on Surveying and

Mapping

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Mapping

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Edition date

Data source ISO Geodetic Registry

Operation version GA v1

Scope Spatial referencing

Operation accuracy 0.2 m

Source CRS GDA2020 - XYZ

Target CRS WGS 84 (G1762) - XYZ

Operation method Time-Dependent Coordinate Frame Transformation (geocentric

Cartesian domain)

#### Extent

Description	Australia - onshore and offshore - mainland, Tasmania, Lord Howe Island, Norfolk Island, Macquarie Island. Christmas Island - onshore and offshore. Cocos (Keeling) Islands -	
	onshore and offshore.	
Geographic Bounding Box	West-bound longitude	93.41
	North-bound latitude	-8.47
	East-bound longitude	173.4
	South-bound latitude	-60.56

#### Operation parameter values

X-axis translation	0.0 metre
Y-axis translation	0.0 metre
Z-axis translation	0.0 metre
X-axis rotation	0.0 arc-second
Y-axis rotation	0.0 arc-second
Z-axis rotation	0.0 arc-second
Scale difference	0.0 parts per million
Rate of change of X-axis translation	0.0 metre per year
Rate of change of Y-axis translation	0.0 metre per year
Rate of change of Z-axis translation	0.0 metre per year
Rate of change of X-axis rotation	-1.50379 milliarc-second per year
Rate of change of Y-axis rotation	-1.18346 milliarc-second per year
Rate of change of Z-axis rotation	-1.20716 milliarc-second per year

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Rate of change of scale difference Time reference 0.0 parts per million per year 2020.0 year

## **ISO Geodetic Registry**

Item class OperationMethod

Name Time-Dependent Coordinate Frame

**Transformation (geocentric Cartesian domain)** 

Item status VALID
Identifier 94

Alias Time-Dependent 7-Parameter Transformation

Alias 14-Parameter Transformation

Alias Time-Dependent Coordinate Frame Transformation

Data source ISO Geodetic Registry

Remarks Note the analogy with the Time-dependent Position Vector

Transformation but beware of the differences! The Position Vector

Transformation convention is used by IAG.

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

Rate of change of X-axis translation

Rate of change of Y-axis translation

Rate of change of Z-axis translation

Rate of change of X-axis rotation

Rate of change of Y-axis rotation

Rate of change of Z-axis rotation

Rate of change of scale difference

Time reference