# ISO Geodetic Registry

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|---|---|---|
| *Item class* | Transformation | |
| *Name* | **ITRF96 to ITRF97 [IERS v1]** | |
| *Item status* | VALID | |
| *Identifier* | 600 | |
| *Information source* | *Title* | The International Terrestrial Reference Frame (ITRF97) |
| | *Author* | C. Boucher, Z. Altamimi, P. Sillard |
| | *Publisher* | Central Bureau of IERS - Observatoire de Paris, 61 avenue de l'Observatoire, 75014 Paris, France |
| | *Publication date* | 1999-05-01 |
| | *Edition date* | |
| | *Series/Journal name* | IERS Technical Notes |
| | *Issue identification* | 27.0 |
| *Data source* | ISO Geodetic Registry | |
| *Remarks* | Null transformation. ITRF97 is aligned to ITRF96. | |
| *Operation version* | IERS v1 | |
| *Scope* | Spatial referencing | |
| *Operation accuracy* | 0.0 m | |
| *Source CRS* | ITRF96 - XYZ | |
| *Target CRS* | ITRF97 - XYZ | |
| *Operation method* | Time-Dependent Position Vector Transformation (geocentric Cartesian domain) | |

## Extent

| | | |
|---|---|---|
| *Description* | **World.** | |
| *Geographic Bounding Box* | *West-bound longitude* | -180.0 |
| | *North-bound latitude* | 90.0 |
| | *East-bound longitude* | 180.0 |
| | *South-bound latitude* | -90.0 |

## Operation parameter values

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|---|---|
| *Time reference* | 1988.0 year |
| *Rate of change of scale difference* | 0.0 parts per billion per year |
| *Rate of change of Z-axis rotation* | 0.0 milliarc-second per year |
| *Rate of change of Y-axis rotation* | 0.0 milliarc-second per year |
| *Rate of change of X-axis rotation* | 0.0 milliarc-second per year |
| *Rate of change of Z-axis translation* | 0.0 centimetre per year |
| *Rate of change of Y-axis translation* | 0.0 centimetre per year |
| *Rate of change of X-axis translation* | 0.0 centimetre per year |
| *Scale difference* | 0.0 parts per billion |
| *Z-axis rotation* | 0.0 milliarc-second |
| *Y-axis rotation* | 0.0 milliarc-second |
| *X-axis rotation* | 0.0 milliarc-second |
| *Z-axis translation* | 0.0 centimetre |
| *Y-axis translation* | 0.0 centimetre |
| *X-axis translation* | 0.0 centimetre |

# ISO Geodetic Registry

| | |
|---|---|
| *Item class* | OperationMethod |
| *Name* | **Time-Dependent Position Vector Transformation (geocentric Cartesian domain)** |
| *Item status* | VALID |
| *Identifier* | 82 |
| *Alias* | Time-Dependent 7-Parameter Transformation |
| *Alias* | 14-Parameter Transformation |
| *Alias* | Time-Dependent Position Vector Transformation |
| *Data source* | ISO Geodetic Registry |
| *Remarks* | Note the analogy with the rotation for the Time-dependent Coordinate Frame 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

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|---|
| *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* |