



ascos Trans

The real-time transformation service for converting global GNSS coordinates into local reference systems – without control points



Real-time transformation without control points.

ascos Trans is a service providing coordinate transformation into the local geodetic reference network or the users own, individual reference system.

ascos Trans provides real-time transformation of global GNSS coordinates into user specific coordinate systems. **ascos** Trans is a very useful supplementary service to **ascos** correction data for satellite positioning with GPS and GLONASS. With **ascos** Trans, coordinate transformation is carried out without the need for control points – saving users' time and money.

Users dial into the **ascos** service via a cellular network or GPRS/Internet and transmit their approximate position as determined by their GNSS rover using the usual ETRS89 reference system. Correction data are generated individually for every user at the **ascos** data processing centre.

With **ascos** Trans, correction data are transformed into the user's preferred local coordinate system.

All three spatial coordinates, i.e. location and height, are transformed. Transformation is from the coordinate reference system ETRS89/WGS84 generally used with GNSS measurements into the distortion-prone official coordinate systems DHDN/DHHN92 location and altitude points in Germany. Even discontinuities between differing projections pose no problem: the transformation always preserves adjacency, homogeneity and uniformity. Incompatibilities associated with conventional procedures cannot arise.

ascos Trans in practical applications

ascos Trans is available everywhere in Germany. **ascos** Trans is an excellent choice not only for professional surveyors, but also and especially for the lay user who does not have in-depth knowledge of geodesy. **ascos** Trans takes care of all the complex theory and computation involved. The service is also extremely valuable for companies operating over large distances with operation sites changing frequently.

An overview of ascos services

		Measurement accuracy
PED	Dual frequency receivers	±2 cm
ED	Single frequency receivers	±30 to ±50 cm
NET	Broadcast service via the Internet	±1 m
net4free	Free broadcast service	>1 m
ViPP	Virtual RINEX via the Internet	<1 cm
Trans	Real-time coordinate transformation	

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ascos – satellite positioning services

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