

Conditions of use of the EPOSA

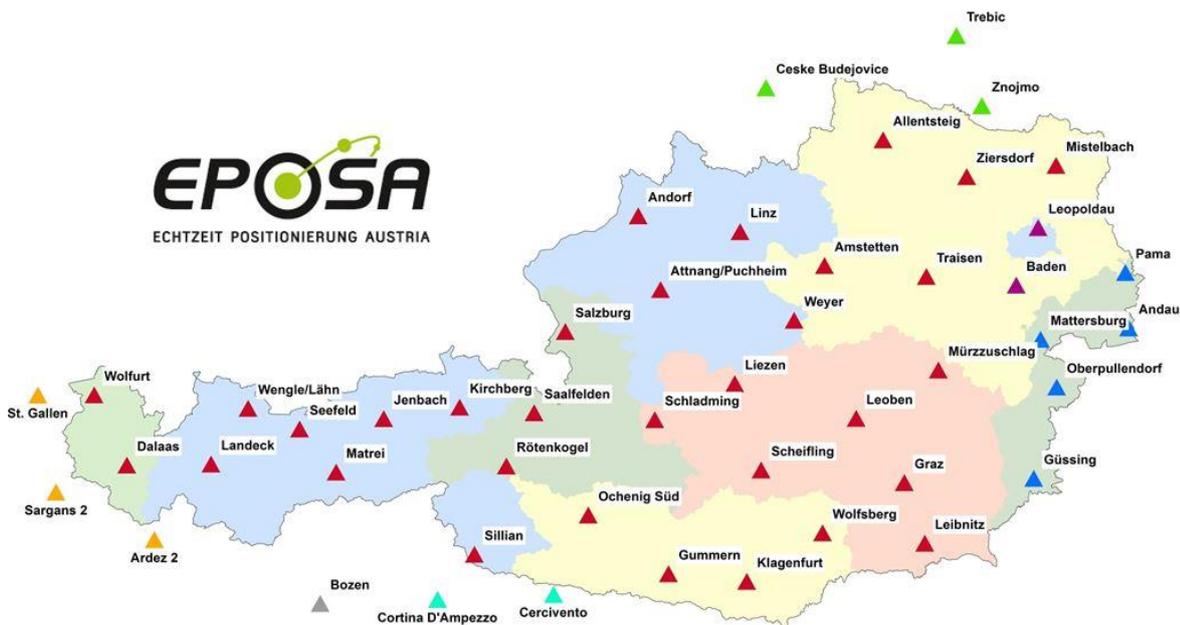
Status as of 01.06.2020

1. object of use

Wiener Netze GmbH provides the use of satellite-based surveying on the basis of the global satellite systems (GNSS) GPS, GLONASS, Galileo and BDS for the whole of Austria (see homepage <http://www.eposa.at>) in the following forms:

- Correction data (VRS concept) for positioning determinations in real time, in the standardised format RTCM (current versions are provided by Wiener Netze GmbH)
- Recording of raw measurement data at the EPOSA reference stations or provision of so-called virtual reference station data in RINEX format for delayed evaluation (post processing mode) according to availability.
- Evaluation of recorded raw measurement data in RINEX format by the user using special correction algorithms at the EPOSA service centre.

The correction data is determined with the help of raw measurement data from GNSS reference stations homogeneously distributed in Austria (plus stations in nearby countries). These reference stations are connected to the two service centres, which are also redundant, by means of redundant data lines.



The realisation ITRF2014 for the epoch 2010.0 of the "International Terrestrial Reference System" ITRS serves as the global coordinate framework for the reference stations and finally also for the user position in the field.

For the transfer of the determined global ITRF coordinates into the system of the Austrian national survey MGI, the EPOSA provides a so-called correction grid (mesh size 45" x 45"). This grid describes the deviations (inhomogeneities) between ITRF and MGI with regard to a 7-parameter transformation that is uniform for all of Austria.

Registered users with a GNSS receiver (rover) can obtain correction data via NTRIP via defined dial-in nodes (services) and thus determine their position in real time in the ITRF2014 Ep.2010.0 or MGI system.

	Service	Dataformat	Mountpoint (MP)	GPS + GLONASS	Correction-grid	accuracy horizontal		accuracy vertical	
						ITRF14	MGI / ETRF89	ITRF14	MGI / ETRF89
Postprocessing	Referenzstation data + Virtuell Referenzdata	RINEX 2.11 RINEX 3.02	EPOSA Homepage	✓		± 1,0 cm		± 1,0 - 2,0 cm	
	RINEX-PPS	RINEX 2.11	EPOSA Homepage	✓	✓	± 1,0 cm		± 1,0 - 2,0 cm	
Real time	DGNSS (dm-level)	RTCM 2.3 (VRS)	DGPS	✓		± 0,5 m	dependent of 7P sets of the customer	± 1,0 m	dependent of 7P sets of the customer
		RTCM 2.3 (VRS)	DGPS-TR	✓	✓	Not usable	± 0,5 m	Not usable	± 1,0 m
	RTK (cm-level)	RTCM 2.3 (VRS)	RTK-2.3	✓		± 1,5 cm	dependent of 7P sets of the customer	± 4,0 cm	dependent of 7P sets of the customer
		RTCM 2.3 (VRS)	RTK-2.3-TR	✓	✓	Not usable	< 10,0 cm	Not usable	< 20,0 cm
		RTCM 3.1 (VRS)	RTK-3	✓		± 1,5 cm	dependent of 7P sets of the customer	± 4,0 cm	dependent of 7P sets of the customer
		RTCM 3.1 (VRS)	RTK-3-TR	✓	✓	Not usable	< 10,0 cm	Not usable	< 20,0 cm
		RTCM 3.1 (VRS)	RTK-3-TR-M** ** 28, 31 oder 34	✓	✓	± 1,5 cm	< 10,0 cm	± 4,0 cm	< 20,0 cm
		RTCM 3.1 (VRS)	RTK-3-ETRF	✓		± 1,5 cm	± 1,5 cm	± 4,0 cm	± 4,0 cm
		RTCM 3.2 (VRS, MSM)	RTK-32-4G	✓		± 1,5 cm	dependent of 7P sets of the customer	± 4,0 cm	dependent of 7P sets of the customer
		RTCM 3.2 (VRS, MSM)	RTK-32-4G-TR	✓	✓	Not usable	< 10,0 cm	Not usable	< 20,0 cm
RTCM 3.2 (VRS, MSM)	RTK-32-4G-TR-M** ** 28, 31 oder 34	✓	✓	± 1,5 cm	< 10,0 cm	± 4,0 cm	< 20,0 cm		

Unless otherwise agreed, the following terms of use shall apply to all contracts between Wiener Netze GmbH and users concerning the use of satellite-based surveying on the basis of the global satellite systems GPS/GLONASS/Galileo/BDS. In the event of contradictions between these terms of use and an individual order agreed with the user in writing, the agreements of the individual order shall take precedence. The contract with the user shall be concluded either by Wiener Netze GmbH accepting the user's offer (application form) by sending the requested data to the user, or an individual contract shall be concluded.

2. Entgelte

Use of the EPOSA data is subject to the fees published at <http://www.eposa.at> at the time the contract is concluded.

Produkt	Beschreibung	Preis €
RTK	Correction data for GPS/GLONASS/Galileo/BDS with centimetre accuracy Billing every second	0,002
RTK	correction data for GPS/GLONASS/Galileo/BDS with centimetre accuracy Billing per calendar day (daily flat rate)	25,00
RTK	Correction data for GPS/GLONASS/Galileo/BDS with centimetre accuracy Billing per month (monthly flat rate)	250,00
RTK	Correction data for GPS/GLONASS/Galileo/BDS with centimetre accuracy Accounting per calendar year (annual flat rate)	2500,00
DGNSS	Austria-wide correction data service GPS + GLONASS precise with submeter accuracy per day	2,00
RINEX	RINEX data or virtual RINEX data with clock rate of 1 second (GPS/GLONASS/Galileo/BDS) per reference station / minute	0,20
RINEX	RINEX data or virtual RINEX data with clock rate of 15 seconds (GPS/GLONASS/Galileo/BDS) per reference station / minute	0,15
RINEX-PPS	Point evaluation from recorded RINEX data of the user by EPOSA, clock rate 1 second, per recorded minute (GPS/GLONASS)	0,25
RINEX-PPS	Point evaluation from recorded RINEX data of the user by EPOSA, clock rate 15 seconds, per recorded minute (GPS/GLONASS)	0,20

For new customers, a set-up fee of € 50.00 is charged once on the first invoice.

The flat rate for technical support for one night (16:00 - 08:00) on a weekday (Monday - Friday) is 100€. This is only available with a previous order.

The flat rate for technical support for a weekend (Friday 16:00 - Monday 08:00) is 200€. This is only available with a previous order.

All above mentioned flat rates for real-time services (RTK, DGNSS) are charged per unit or part thereof:

- The annual flat fee is charged (quarterly) annually, regardless of the dial-up to the EPOSA real-time services.
- The monthly flat rate is charged for all calendar months in which at least one dial-in to the EPOSA real-time services has taken place.
- The daily flat rate will be charged for all calendar days in which at least one dial-in to the EPOSA real-time Services has taken place.
- In the case of the flat rate per second, all dial-in times are added up to the second and charged at the secondary rate. The dial-up time is the time the rover is logged on to the EPOSA server. This period begins with the establishment of the server connection and ends with the disconnection of the server connection, even if no data are processed by the rover in the meantime.

A change between the tariff models can only be made for the full quarter with the key dates 01.01., 01.04., 01.07. or 01.09. A change of tariff costs 20€ per licence.

3. Data transmission

The EPOSA data is made available to the user for his own purposes only. It may not be passed on to third parties and/or used for any other purpose and will result in the immediate deactivation of access authorisation.

If Wiener Netze GmbH suffers any damage due to non-compliance with this provision, the user shall be obliged to indemnify Wiener Netze GmbH and hold it harmless.

For technical reasons, the geographical position of a rover is known to the EPOSA server during online operation. Wiener Netze GmbH undertakes to comply with the provisions of the Data Protection Act (DSG 2000) as amended and the TKG 2003 as amended with regard to this data.

The storage of individual connection data for the purpose of billing and proof of usage is permitted.

4. Liability

Wiener Netze GmbH assumes no liability for configuration settings on the customer's receiving device. From the transfer interface of the correction data onwards, the customer shall be responsible for all settings in his own system and for the services / products / results provided by him to third parties on the basis of the correction data.

The EPOSA data are provided with the necessary care. However, Wiener Netze GmbH accepts no liability for the completeness and correctness of the EPOSA data provided. It shall only be liable for damages insofar as these have been caused intentionally or through gross negligence on its part. Liability for consequential damage, indirect damage, loss of profit or damage to third parties is excluded.

In the event of malfunctions or failures of components of the reference stations and communication facilities, Vienna Networks will take appropriate measures to remedy them.

This liability regulation shall also apply to the same extent to third parties whose services Wiener Netze GmbH makes use of for the fulfilment of the agreed services.

Wiener Netze GmbH reserves the right to take the system out of operation for maintenance work as quickly as possible after giving appropriate advance notice, and assumes no liability for any damage incurred by the user as a result.

5. Competent court

These terms of use and the contracts concluded under them are subject exclusively to Austrian law. In the event of disputes, it is agreed that the competent court in Vienna shall have jurisdiction.

The user acknowledges these terms of use as legally binding. In the event of non-compliance, Wiener Netze GmbH is entitled to withdraw the user's access authorisation to the EPOSA system without notice.

6. Terms of payment

All fees are exclusive of 20% value added tax and are payable 14 days after invoicing. Invoicing takes place per quarter.

7. Technical support

Questions on the status and availability of the EPOSA system will be answered on technical matters from Monday 08:00 to Friday 16:00. It is not the task of the EPOSA Hotline to isolate technical problems on the customer's terminal equipment, but of the manufacturer of the terminal equipment.

If support and availability of a support employee is required outside the above-mentioned times, this service is available at a flat rate for the night or weekend.