CORSnet-NSW Premium Real-Time Data

PRODUCT AND SERVICE DEFINITION

EXTERNAL	**Product / Service Title**	Global Navigation Satellite System (GNSS) Continuously Operating Reference Station (CORS) Radio Technical Commission for Maritime Services V3.X (RTCM3.X) Data in Real-time at One Second epochs.
	Product Category	GNSS Data A continuous stream of GNSS data in RTCM format from a CORS, broadcast via Ntrip protocol via wireless internet.
	Purpose	Many GNSS users require greater accuracy than is available by using GNSS only (typically 5 metres). Users receive CORS RTCM data and it is processed by their own GNSS equipment in the field in real time to enable their current position to be improved to sub-metre or up to centimetre level accuracy.
	Customer-centric Features and Benefits	Data Formats: RTCM V3.x (CMR+ also available) http://www.rtcm.org/overview.php#Standards Message Types: Dual Frequency GPS and GLONASS Latency: Dependent on mobile connection made by individual user. Typically less than one second. Times available: All times excluding disruptions
	Search words	RTCM, RTK, Real time, GPS, GNSS, CORS
	Access and Access Constraints	CORSnet-NSW Ntrip Caster (real-time access point): http://corsnet.nsw.gov.au:2101 By accessing CORSnet-NSW Premium Real time Data, users agree to abide by the CORSnet-NSW terms and conditions available at: http://corsnet.nsw.gov.au/terms.aspx
	Products and Pricing	Product listing available at www.corsnet.com.au. Pricing available upon request.
	Performance standards	**Accuracy** Accuracy is a measure referring to the difference between a measured coordinate or height and its true value. All final CORS station coordinates are determined through Regulation 13 certification. A user's positional accuracy depends on service selected (single base vs NRTK), user equipment, rover firmware, length of observation time, observation technique, distance from CORS, satellite geometry and local site conditions (eg multipath, tree cover, local subsidence etc) A general guide to achieving horizontal accuracies of 10mm +/- 1 ppm (millimetres per kilometre) is an observing period of 30 secs. Significantly

		better results are achieved after a site calibration/localisation. **Initialisation** Clear, minimally obstructed site less than 1 minute **Repeatability** Depends on user equipment, satellite configuration and other environmental factors. **Reliability** Registered users will be notified of planned outage for any CORS.
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