CORSnet-NSW DGPS Real-Time Data

PRODUCT AND SERVICE DEFINITION

<table>
<tr><td rowspan="9">EXTERNAL</td><td>Product / Service Title</td><td>Global Navigation Satellite System (GNSS)

Continuously Operating Reference Station (CORS)

Radio Technical Commission for Maritime Services V2.3 (RTCM2.3)

Data in Real-time at One Second epochs.</td></tr>
<tr><td>Product Category</td><td>GNSS Data

A continuous stream of GNSS data in RTCM format from a CORS, broadcast via Ntrip protocol via wireless internet.</td></tr>
<tr><td>Purpose</td><td>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 the current position to be improved to sub-metre accuracy.</td></tr>
<tr><td>Customer-centric Features and Benefits</td><td>Data Format: RTCM V2.3

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</td></tr>
<tr><td>Search words</td><td>RTCM, Real time, DGPS, GPS, GNSS, CORS</td></tr>
<tr><td>Access and Access Constraints</td><td>CORSnet-NSW Web Ntrip Caster (real-time access point):
    http://corsnet.nsw.gov.au:2101

By accessing CORSnet-NSW DGPS Real time Data, users agree to abide by the CORSnet-NSW terms and conditions available at:
http://corsnet.nsw.gov.au/terms.aspx</td></tr>
<tr><td>Products and Pricing</td><td>Product listing available at www.corsnet.com.au. Pricing available upon request.</td></tr>
<tr><td>Performance standards</td><td>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 user equipment, firmware, length of observation time, observation technique, distance from CORS, satellite geometry and local site conditions (eg multipath, tree cover, local subsidence etc)

As a general guide, the DGPS service will deliver sub-metre horizontal accuracies across most of NSW.

Initialisation</td></tr>
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		Not applicable. Continuous positioning results with no initialisation period required.
		Repeatability
		Depends on user equipment, satellite configuration and other environmental factors.
		Reliability
		Registered users will be notified of planned outage for any CORS.
	Contacts	CORSnet-NSW Customer Support
		Phone: (02) 8258 7521
		Fax: (02) 92334454
		Email: CORSnetCustomerSupport@lpi.nsw.gov.au
	Data Custodian Details	LPI NSW