

Romona Contracts C & C Technologies

C & C Technologies (Asia-Pacific) Pte Ltd in Singapore recently signed a long term contract to supply Romona with C-Nav equipment and correction signals. C & C will deliver C-Nav equipment to Romona's offices in Sakhalin, Vietnam, Thailand and the Middle East to support their international operations.

C-Nav is a new concept in GPS positioning, which is rapidly gaining ground as the standard for offshore survey and positioning applications. NASA's Jet Propulsion Laboratory (JPL) and NavCom Technology, a John Deere subsidiary, independently and concurrently invested 10 years of research and development on this project in their pursuit to provide centimetre accuracy for their respective applications. C & C Technologies, through their partnership with NavCom Technology, has used this research to develop commercial applications for the offshore oil related marine markets.

C-Nav uses a global network of reference sites equipped with dual-frequency geodetic-quality GPS receivers to simultaneously track and monitor the entire GPS constellation. These sites transmit the data via two independent Network Processing Hubs (NPH), which provide 100 per cent redundancy. The NPHs calculate orbit and clock corrections for each satellite in the GPS constellation. These corrections are packaged and up-linked to the INMARSAT communication satellites for global broadcast to all C-Nav users in real time. Each C-Nav receiver integrates these corrector values while comparing the L-1 and L-2 frequencies to eliminate ionospheric and troposphere effects. The end result is a true Global GPS service with real time decimetre-level accuracy. Current users of C-Nav have commented that its increased accuracy, low cost of equipment, and worldwide correction signals make it the best positioning system on the market.

<https://www.hydro-international.com/content/news/romona-contracts-c-c-technologies>
