California Spatial Reference Center

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What is a CRTN Consortium Member?

California Real Time Network (CRTN) Consortium members are those who contribute funds to recovering the costs of operating CRTN. The general goals of the CRTN Consortium membership are to support and provide the following:

- *Public Service* - Member fees support free and open access to basic services for all users in California as outlined in the CRTN Proposal.

- *Supporting the Maintenance of the California Spatial Reference System (CSRS)* - The CSRC is responsible for maintaining the CSRS. The changing positions of the stations are continuously updated and published for tectonic and seismic motions, and velocity models are maintained.

- *Densification* - CRTN backbone network will include about 200 stations with a minimum spacing of 50 km. Current real time network operators can make use of this statewide spatial referencing network backbone to densify their networks as needed.

In addition to this, CRTN Consortium members will also provide governance and oversight/management of the network.

CRTN Consortium Membership Tiers:

Contributing Members: donate $1,000 annually, which provides access to a second NTRIP account for real-time access to RTCM 2.3 and 3.0 data (all users have free access to a single account). Additional access increases by $1,000 per account. Please note that contributing members do not participate in oversight/management of the network.

CRTN Consortium Members: contribute $15,000 annually, which provides access to any 20 real-time CGPS sites 24/7. This membership has voting privileges on the CRTN Consortium, which oversees the development and management of the network. If a Consortium member needed more than 20 sites, they can add addition sites at $1000 each.

Statewide CRTN Consortium Members: contributes $150,000 annually to fund CRTN and has access to all real-time CGPS sites 24/7. This membership has voting privileges but is limited to three voting members, and also includes being part of the team that will oversee the development and management of the network.

Donations for any amount are welcome. All donations are used towards operating and maintaining CRTN and our data services. If you or your organization would like to donate or

contribute membership dues, please go to the following link: https://www-er.ucsd.edu/givetoucsd/secure/paymenttran/onlinegiving.asp?sk=367."

For more information, please see the CRTN Proposal and CRTN Business Plan

Please contact Maria Turingan for any questions @ (858) 822-2156

CRTN FAQ:

1. What are the advantages of using the CRTN network over a private subscriber network?

That's a good question. Here are a few answers.

1. A single user account is free, 24/7 for RTK surveying.
2. Your RTK positions are based on NAD83 (NSRS2007), Epoch 2011.00 which is a statewide common reference frame.
3. These RTK positions fulfill the requirements of the California Public Resources Codes 8856(c)(e), 8857(c), and 8858(b) for GPS-derived geodetic coordinates and orthometric heights.
4. CRTN uses only continuous GPS (CGPS) stations that are part of the California Spatial Reference Network (CSRN), and built for high-accuracy, longevity, and geophysical stability.

Keep in mind that CRTN does not offer a network solution. Your positions are computed using standard RTK computations that your receiver supplies. You will need to make the decision on whether the base stations are close enough to your project for acceptable results.

I suggest getting an account and testing your equipment with CRTN. Why you would not is a good question.

2. As a CRTN Consortium member, I need access to 26 data streams. How can I get this?

A CRTN Consortium member has access to any 20 real-time CGPS data streams. You can also contribute $1,000 annually for additional individual data streams. So, for 26 data streams, an annual contribution of $21,000 would give you access to any 26 real-time CGPS data streams.