

## Re: Solution to create RTCM SC104 messages

**Source:** <http://sci.tech-archive.net/Archive/sci.geo.satellite-nav/2004-08/2372.html>

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**From:** GPS guy ([ericpg\\_at\\_peak.org](mailto:ericpg_at_peak.org))

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Date: Fri, 27 Aug 2004 07:54:35 -0700

Ok, I understand your location. I did a project in Indonesia a few years ago where the gov bought 200 units. Had to start from scratch with no GPS infrastructure.

If you get away with \$1,400 in your proposal and win the bid, I'd use that price (assuming it comes with an antenna). Then when it comes to purchasing, I think getting something for less is definitely doable...just have to be ready to act.

Good luck on your bid!

G

>

> >I know the Novatel recvr you mention. I've used them before too...both the

> >L1 (3151R) and L1/L2.(Millineum).

>

> >Yeah, that rings a bell – I think we have a 3151 & something very similar –

> >maybe 3152 or something like that. Getting pretty old now!

>

> >You have to ask yourself what kind of quality you want. The VP Oncore is a

> >>2–5 meter quality receiver after DGPS....no better than a stable WAAS

> >>solution and not much better than an autonomous solution. So to me, it

> >>doesn't make a lot of sense....but I don't know your application.

>

> >Well, this will be used in Borneo, so no WAAS there, though maybe the

> >>Japanese will get their act together in another year or so. Even when the

> >>MSAS satellite is up, there still aren't likely to be any reference stations

> >>anywhere close to Borneo.

>

> >>The application is to feed RTCM SC–104 into some (10) AIS base stations, so

> >>they can retransmit the corrections via AIS/GPS message 17 to all vessels in

sci.geo.satellite-nav: Re: Solution to create RTCM SC104 messages

- > *the vicinity. The AIS receivers on the boats (with built-in GPS) have specs*
- > *saying < 5m with DGPS, so I don't need anything really fancy on the base stations.*
- >
- > *The Novatel or similar quality meter-level L1 receiver starts to make sense*
- > *for RTCM DGPS, but you'd be hard-pressed to find them for \$500.*
- >
- > *I've been hunting around the Novatel website & found I could get prices. I can get the following:*
- >
- > *SA-422-CMW-BASE.....White, 12-pin plastic cable mount conn, DGPS base, 1 Hz CP output, SBAS, 9,600 bps default.....\$1,399*
- >
- > *US\$1400 is a bit more than I'd like to pay, but it may have to do. At least*
- > *it gives me a price to put into the proposal, and if I find one cheaper later*
- > *on it will be a bonus. :-)*
- >
- > *Dave*
- >
- >
- >
- > *The email address used for sending these postings is not valid.*
- > *All replies to the group please.*