

## Re: GPS Data Bandwidth Usage

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- *From:* Happy Trails <[nomail@xxxxxxxxxxxx](mailto:nomail@xxxxxxxxxxxx)>
  - *Date:* Mon, 20 Aug 2007 14:18:04 -0400
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On Mon, 20 Aug 2007 09:36:22 -0700, [brentevans@xxxxxxx](mailto:brentevans@xxxxxxx) wrote:

I was hoping one of you extremely bright gentlemen or ladies could assist me.

We are running a fleet of approximately 400 vehicles equipped with GPS receivers. These vehicles are transmitting data (not GPS yet) across a Motorola Datatec 900 MHz network. These systems would be setup to transmit every 5 min. Can anyone explain the Bandwidth implications of adding this traffic to our network?

Thanks for the help, Brent

Are you using a "DATATAC" network?

Are you a cop? Or a taxi company?

How many of the 400 are actually active at one time – your busiest time – all of them?

Depending on the load on your network at your current usage level, you could either bring the system to its knees or hardly notice the additional load.

What is the number of milliseconds to transmit/receive/process a single position report?

No matter what the studies that your Motorola rep or your own people have already done show you, I would start conservative, and set the system up initially to report less often, then decrease the reporting period delay in steps till you notice it.

What is the implication of initially knowing anyone's location say every 10 or 15 minutes instead of every 5 minutes?

Is it easy to change the reporting period without servicing the in

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vehicle units?

Do you have the option of specifying a "polled report" mode, where each vehicle's position is requested from a centralized server, then it reports?

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