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## TecNote 2002 – Chronomax Pager Verification Unit Tips

The physical location of the pager verification unit can greatly influence its performance. A typical office contains dozens of electromagnetic hazards. The following are items to help aid in the physical placement of the verification unit.

1. Place the unit as high as possible in the room to lift it above obstacles
2. Place it close to a window if one is available
3. Avoid placing it too close to walls or metal structures
4. Never place the unit near a monitor, computer, or florescent lights
5. If necessary, use an antenna to aid in reception

### Time of Day

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No different than a busy freeway, there are times of day that the airwaves are also crowded. During these peak hours, transmission times increase, and transmissions are even occasionally lost. The following items may help alleviate some of these problems

1. Ask your service provider when the peak hours of the day are
2. Use the history log to correlate successes and times of day
3. Run tests at various times of day to make your own measurement of effectiveness
4. Transmit data during low traffic times
5. Start of the work day, around lunch time, and prior to closing are typical peak times

### Additional Impacts

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There are also a few small items related to setup that will impact the system performance.

1. The verification fail time should be adjusted to reflect the speed of the pager service
2. Do not extend the RS232 cable too far. 10'-15' is about as far as you want to go.
3. Watch the red light on the unit to see if it is receiving the pages

Service providers are not perfect. 50%-75% success is acceptable if redundancy settings are used. 100% success is rare, and 90% is typical.

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