

## **Time and Frequency from GPS/GNSS**

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We give a brief summary of how GPS generates time and frequency, how this becomes available to users, and discuss reliability issues. With a focus on GPS, we give an overview of the current status and future plans for GNSS including GPS, GLONASS, Galileo, Beidou/Compass, and QZSS. One of the greatest assets as well as the biggest problems for GPS is that it is extremely reliable. We list known failure modes. A brief discussion will be included of current and potential future methods of assuring signal integrity, and methods for backing up GPS/GNSS. References will be made available.