

# GNSS Signal Architect Product Suite

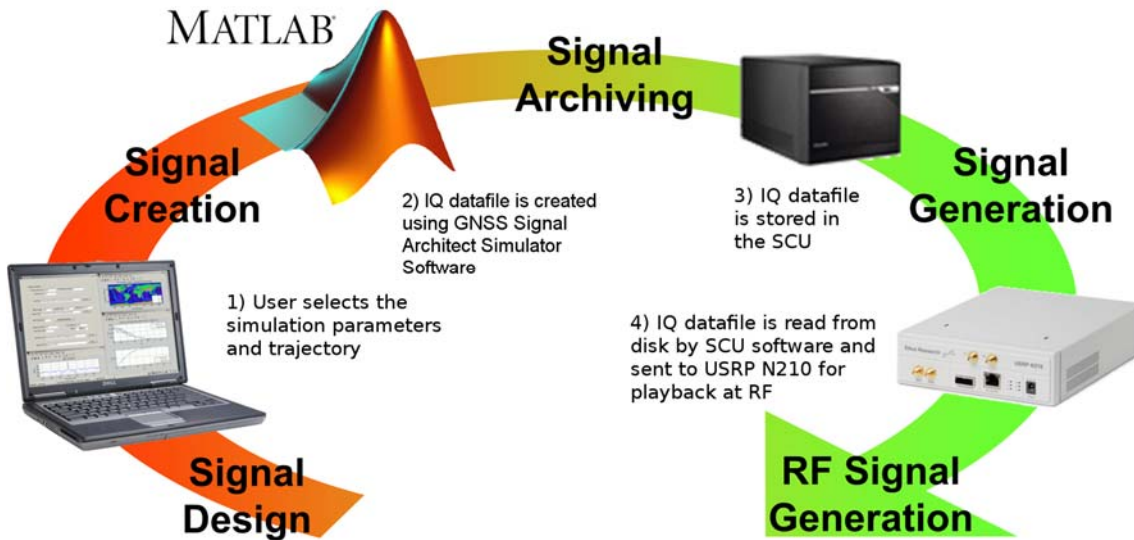
The NAVSYS GNSS Signal Architect suite of products provides engineers with GNSS simulation and test capability at very competitive prices. The GNSS Signal Architect Simulator Software allows users to specify a trajectory and complete set of simulation parameters to create an IQ data file at baseband or IF. The data file can be used for subsequent analysis with our GNSS Signal Architect Toolbox or can be provided to our GNSS Signal Architect Test Set to create a signal suitable for playback into a GPS or GLONASS receiver. Since all signal processing is implemented in MATLAB, the user has complete flexibility to manipulate the signal at various stages to simulate signal anomalies, interference, jamming, multipath, and integration with other simulations.

## GNSS Signal Architect Simulator Software

Create simulations of GPS or GLONASS scenarios

## GNSS Signal Architect Toolbox

GPS and GLONASS data analysis and signal processing



position

navigation

timing

# GNSS Signal Architect Product Suite

## GNSS Signal Architect Simulator Software

A software tool that creates simulations of GPS or GLONASS based on static or dynamic scenarios. Users can specify a complete set of simulation parameters, including receiver/satellite profiles and delay/noise error modeling. Playing back the simulation as an RF signal provides accurate and repeatable signals for GNSS receiver testing.

## GNSS Signal Architect Toolbox

**Signal Simulation Tools:** Simulates the effect of GPS and GLONASS satellite signals on a conventional receiver's code and carrier tracking loops.

**Geographical Tools:** Facilitates the transformation of data between the various coordinate systems commonly used in GPS research.

**Satellite Geometry Tools:** Reads GPS and GLONASS almanacs and ephemerides and computes coordinates and line-of sight vectors to GNSS satellites, DOP values, and predicted satellite visibility.

**Receiver Design and Analysis Tools:** Models different receiver architectures and simulates different error scenarios such as urban environments, multi-path, and high-dynamic situations.

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