Navigation Messages

Navigation messages are means of transmitting information that relates to the navigation state of a spacecraft. The navigation state contains information about the position, orientation, and motion of the spacecraft. It is normally separated into an orbit state and an attitude state. The orbit state represents the position of a spacecraft and the evolution of the position relative to an external coordinate frame. The attitude state represents the orientation of a spacecraft and may also represent the evolution of the orientation relative to an external coordinate frame.

* The Tracking Data Message contains information that can be used to determine the orbit state of a spacecraft.
* The Orbit Data Message contains information that defines the orbit state of a spacecraft at one or more times.
* The Navigation Hardware Message contains information that can be used to determine the attitude state of a spacecraft.
* The Attitude Data Message contains information that defines the attitude state of a spacecraft at one or more times.
* The Conjunction Data Message contains information that defines the relationship between the orbit states of different objects at different times.
* The Pointing Request Message contains information on the desired attitude state of an object at one or more times.
* The Spacecraft Maneuver Message contains information on the transformation from one state (attitude or orbit) to another.