

## **Orbital Navigation Systems - Present and Future Systems**

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### **Abstract**

The intention of this paper is to discuss orbital navigation systems as they relate to use in the civil offshore Industry, and specifically as they relate to its use as a Position Reference System (PRS) in the Dynamic Positioning (DP) Industry. It is not intended as a Technical discussion on the operation of satellite systems.

The paper commences with a brief history of orbital navigation systems, followed by a description of navigations systems in use at the time of writing. This will include methods of using basic signals, augmentation of basic signals and other uses of the navigation signals.

Some of the problems and shortfall of orbital navigation systems will be mentioned, followed by known planned improvements to operational systems, and proposed systems.

Finally, some thoughts on what the future could hold.

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