

**Title:** Including GNSS Based Heading in Inertial Aided GNSS DP Reference System

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### **Abstract**

High precision GNSS are used as DP reference systems and 10 – 20 cm accuracy can be expected on a worldwide basis. However, these systems still have some limitations, mainly related to:

- GNSS systems are line-of-sight, radio navigation systems
- Measurements are subject to signal outages and interference

In addition to this DP relies on accurate heading information to work. Usually heading is provided by traditional gyros. This paper presents a solution providing GNSS based heading, while overcoming some of the vulnerabilities of a GNSS DP reference system.

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