



## **FACT SHEET**

# **Positioning, Navigation, and Timing Interference Detection and Mitigation Plan**

### **Background**

The National Positioning, Navigation and Timing (PNT) Interference Detection and Mitigation (IDM) Plan was developed by the Department of Homeland Security per the U.S. Space-Based PNT Policy of December 8, 2004.

The policy assigned DHS specific coordination responsibilities to protect PNT services within the U.S. critical infrastructure. The IDM Plan provides the framework and guidance necessary to execute responsibilities required by the PNT policy.

The plan is the DHS initial response to the policy implementation. It establishes the foundation for additional planning and actions necessary to meet national PNT policy responsibilities.

The plan promotes improved coordination, cooperation and information exchange among government agencies enabling prioritized responses to incidents using the best available resources. The IDM plan advocates methodologies, practices and solutions for improved national response capabilities.

Space-based PNT services are integral to the technological foundation of the civil and commercial worldwide infrastructure. The services are also key components of numerous parts of the U.S. critical infrastructure.

### **DHS Interference Detection and Mitigation Plan**

- Coordinates U.S. interference detection and mitigation capabilities;
- Directs the collection, analysis, data storage and distribution of interference reports;
- Enhances development, implementation and exercise procedures to request assistance from the Secretary of Defense.

### **IDM Plan Objectives**

- Establish key responsibilities for the major U.S. PNT policy stakeholders;
- Emphasize the importance of GPS within critical infrastructures;
- Review available methods of interference detection, reporting, investigation and mitigation; ensure organizations train, test and exercise these methods;
- Identify potential improvements in processes and architectures. Establish a baseline for a cooperative framework for future IDM capabilities;
- Provide recommendations for capability improvement, plan management, testing and evaluation;

- Provide the basis for estimating national PNT funding requirements.

### **Methodology**

- The DHS PNT Working Group, established by the plan, will address the need for new or modified concepts of operations. With the growth of new Global Navigation Satellite Systems, the plan also is applicable to other space-based and ground-based PNT services, augmentations and back-up services;
- The main planning focus is internal to the U.S., but also considers the problem of future worldwide PNT service interference;
- The plan, as a living document, develops and builds on existing systems and capabilities to improve processes and create a roadmap for future capability development. DHS is working with multiple PNT stakeholders to develop a cooperative framework to execute the plan;
- The plan is a basis for IDM analysis. Specific agency responsibilities result from cooperative agreements within the U.S. PNT stakeholder community.

### **Additional Information**

For U.S. PNT information, IDM plan excerpts, public policy and other documents, visit:

**<http://www.pnt.gov>**