



SPACE-BASED POSITIONING  
NAVIGATION & TIMING

NATIONAL COORDINATION OFFICE

# *National Policy Update*

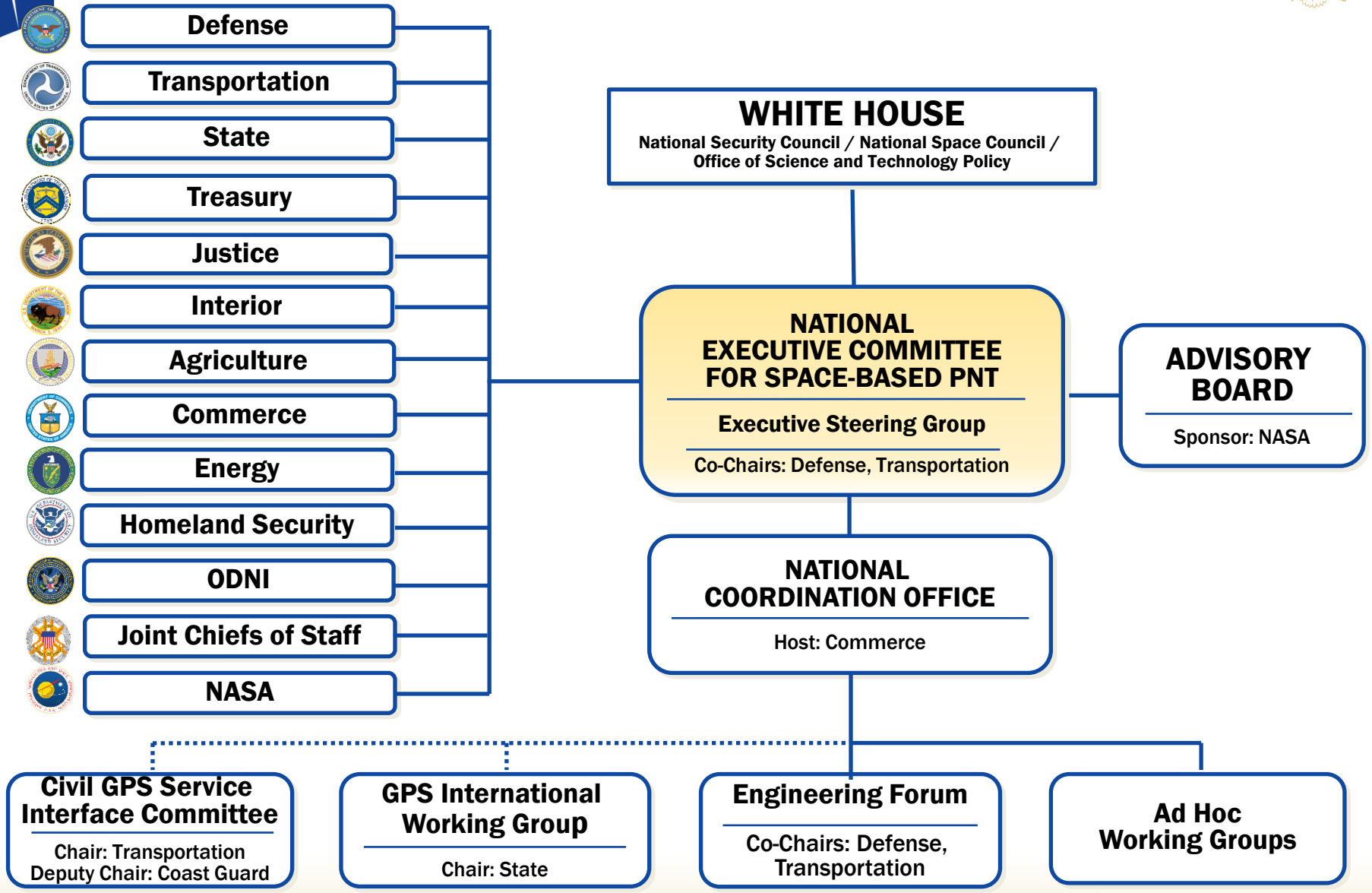
*PNT Advisory Board  
December 2023*

*Harold W. Martin III  
Director  
National Coordination Office for  
Space-Based PNT*



# Thank You

# National Space-Based PNT Organization





# National PNT Policy Ecosystem



- **Space Policy Directive 7**
- **National Space Policy**
- **Executive Order 13905**
- **Space Policy Directive 5**
- **National Standards Strategy**

# ***U.S. Government National Standards Strategy for Critical and Emerging Technology (CET)***

The cover of the report is dark blue with a curved line of light blue stars on the right side. The title is in white, bold, sans-serif font. At the bottom right is the White House logo.

**UNITED STATES  
GOVERNMENT  
NATIONAL STANDARDS  
STRATEGY FOR  
CRITICAL AND  
EMERGING  
TECHNOLOGY**

MAY 2023



- The United States will prioritize efforts for standards development for a subset of CET that are essential for U.S. competitiveness and national security, including the following (~8) areas:
- PNT Services, which are a largely invisible utility for technology and infrastructure, ...
- 4 Objectives: Investment, Participation, Workforce, Integrity and Inclusivity



# Spectrum is Not Safe

- Computers and the Internet: Once Upon a Time...
  - A GPS receiver is more computer than radio...
- GPS relies on spectrum – no longer a safe haven
- 900 Million U.S. GPS-enabled devices require Cybersecurity
- U.S. Policy directs PNT resiliency (SPD-5, SPD-7, PPD-21, EO 13800, EO 13905, National Cyber Strategy)
- NIST PNT Profile: Applying the Cybersecurity Framework for the Responsible Use of PNT Services (NISTIR 8323)

***“Known but unmitigated vulnerabilities are among the highest cybersecurity risks...”***

***(EO 13800: Strengthening the Cybersecurity of Federal Networks and Critical Infrastructure)***



# What Can You Do Now?



- **CIOs: Include GPS-enabled devices in Cybersecurity plans**
- **Be a demanding customer - toughen GPS devices:**
  - **Incorporate valid range checking and other elements of GPS Interface Specification (IS-GPS-200M \*)**
  - **Incorporate DHS Best Practices (*Improving the Operation and Development of Global Positioning System (GPS) Equipment Used by Critical Infrastructure, Jan 2017* \*)**

\* Documents available on [www.gps.gov](http://www.gps.gov)

***Protect GPS and Critical Infrastructure that Relies on GPS***



# Thank You



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For Legislative Staff | For Students & Teachers

**GPS.gov** Official U.S. government information about the Global Positioning System (GPS) and related topics

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**GPS: The Global Positioning System**  
A global public service brought to you by the U.S. government

**INFORMATION FOR THE GENERAL PUBLIC**

**How to Correct Your Address in GPS Devices, Apps, & Online Maps**

Do GPS devices show your home or business in the wrong place? The problem is not GPS! It's the mapping software.

[Report your issue to the software providers](#)

**Common Questions**

- How do I add or correct my address in GPS devices, apps, and maps?
- What can I do about trucks driving through my neighborhood?
- How do I report GPS service outages?
- Can GPS help me find my lost phone?
- How does GPS work?
- How accurate is GPS?
- How vulnerable is GPS to malicious jamming?

**Featured Content**

[What is GPS?](#) [How GPS Works](#)

**FOR GPS PROFESSIONALS**

**What's **HOT** for Pros**

- PNT advisory board, Dec 2023
- CGSIC Denver 2023
- Technical documentation
  - Public ICWG, Sep 2023
  - PRN assignments, Apr 2023
  - GPS III antenna patterns (USCG.gov)
  - ICD uprevisions, Aug 2022

**News Items**

- Nov 20: PNT Advisory Board to convene December 6-7 in Houston, TX
- Sep 19: DHS Invites Critical Infrastructure Owners and Operators to GPS Spoofing Test Event
- Apr 12: PNT Advisory Board to convene May 3-4 in Annapolis, MD
- Mar 20: Joint announcement on GPS-KPS technical working group meeting

**New Additions to GPS.gov**

- Dec 4: Dec 2023 advisory board meeting
- Sep 18: May 2023 advisory board minutes (PDF)
- Jul 7: 2023 Public ICWG meeting and proposed change notices
- Jul 7: SSCWG page retired

**Resilience Through Responsible Use of PNT**

Stay in touch:

[www.gps.gov](http://www.gps.gov)

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