



SPACE-BASED POSITIONING  
NAVIGATION & TIMING  
NATIONAL COORDINATION OFFICE

# U.S. Space-Based Positioning, Navigation & Timing (PNT) Policy Update

**54<sup>th</sup> Civil GPS Service Interface Committee Meeting  
Tampa, Florida – September 9, 2014**

**Jason Y. Kim  
Senior Advisor**



# U.S. National Space Policy



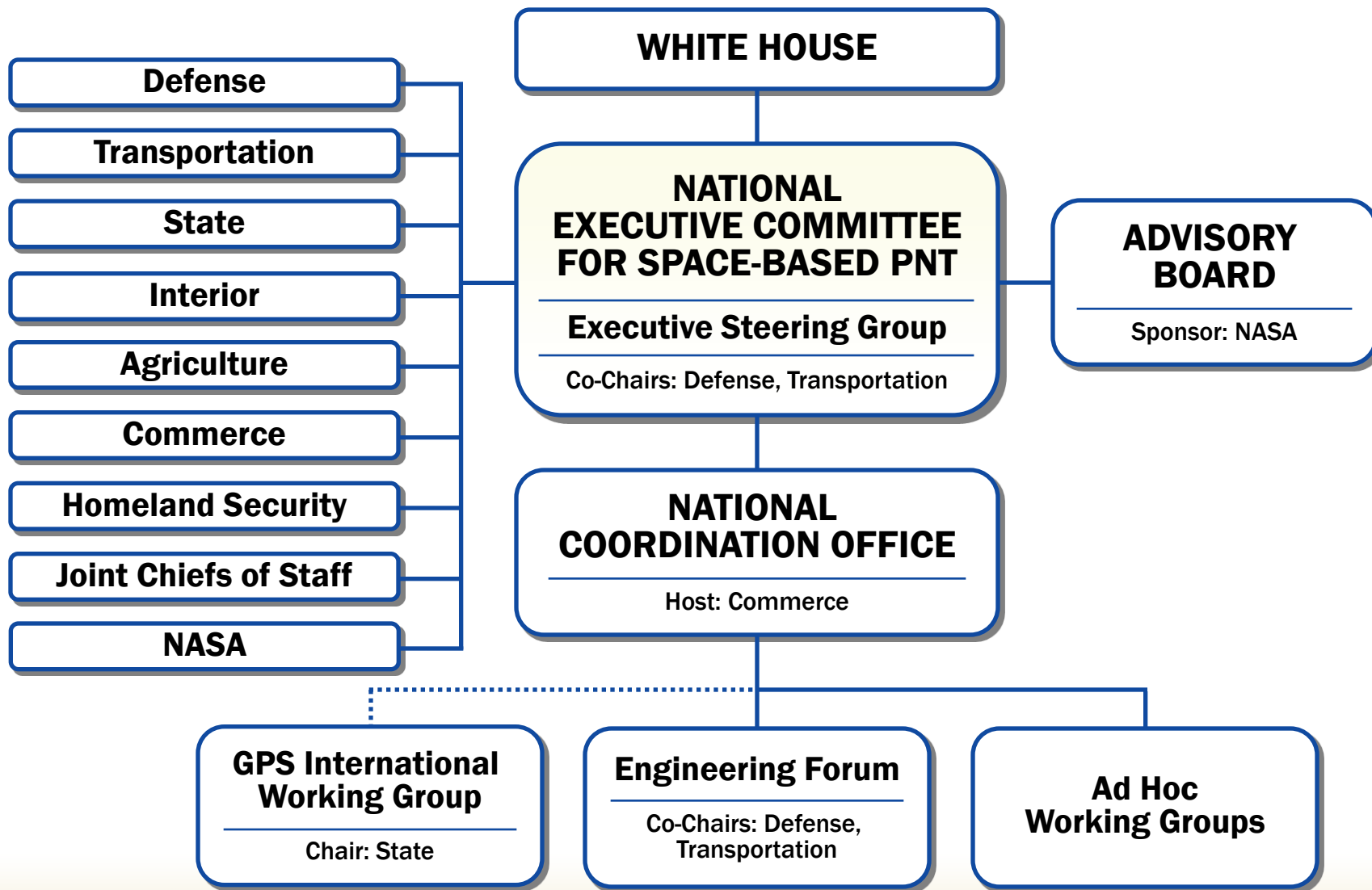
*“The United States must maintain its leadership in the service, provision, and use of global navigation satellite systems (GNSS).”*

- Provide continuous worldwide access to GPS for peaceful uses, free of direct user charges
- Engage with foreign GNSS providers on compatibility, interoperability, transparency, and market access
- Operate and maintain GPS constellation to satisfy civil and national security needs
  - Foreign PNT may be used to strengthen resiliency
- Invest in domestic capabilities and support international activities to detect, mitigate, and increase resiliency to harmful interference

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



# U.S. Space-Based PNT Organization Structure





# Updates on EXCOM and NCO



- **New EXCOM co-chairs**
  - Robert Work, Deputy Secretary of Defense
  - Victor Mendez, Deputy Secretary of Transportation
- **EXCOM met March 2014**
- **NCO awaiting appointments of new director (DOT) and deputy director (DOD/AF)**
- **Recent NCO activities include:**
  - Interagency coordination of CNAV implementation plan
  - Promoting critical infrastructure resilience to GPS disruption
  - Evaluation of international cooperation issues
  - GPS outreach and education



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



# National Space-Based PNT Advisory Board



- Provides independent advice to U.S. government
- 23 current members from U.S. industry, academia, foreign organizations
  - Acting chair: Dr. Brad Parkinson
- Met June 2014
  - Current work focus: “Protect, Toughen, Augment”
  - Also continuing efforts to help quantify economic benefits of GPS
- Next meeting: December 10-11, 2014, Washington

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



# New U.S. Law in Effect



- **National Defense Authorization Act for FY 2014 signed December 2013**
- **§ 1602(b) - Limitation on Construction on United States Territory of Satellite Positioning Ground Monitoring Stations of Foreign Governments**
  - **Applies to construction of a GNSS ground monitoring station controlled by a foreign government in U.S. territory**
  - **Requires SecDef and DNI to certify to Congress that station cannot be used to gather intelligence or improve any foreign weapon system**
  - **SecDef and DNI may waive certification but must report waiver to Congress**

**[www.gps.gov/policy/funding/2014/#wicker](http://www.gps.gov/policy/funding/2014/#wicker)**



# New Export Control Regulations



- **Revised State, Commerce rules published May 15**
  - Effective November 10, 2014
  - Many commercial satellites and components removed from U.S. Munitions List (USML)
- **High-speed GPS receivers removed from USML**
  - Altitude parameter removed; GNSS instead of GPS
  - Not eligible for License Exception Strategic Trade Authorization (STA)
- **GPS receivers remaining on USML become subject to Commerce controls upon integration into a Commerce-controlled item**
- **Extraneous notes deleted from GPS paragraph**

[www.export.gov/ecr](http://www.export.gov/ecr)



# GPS Funding Status



Program	FY 2014 Enacted	FY 2015 Request	House Mark	Senate Mark
AF: GPS Program	\$1.2086B	\$1.0135B	\$1.0414B (+\$27.9M)	\$1.0369B (+\$23.4M)
DOT: GPS Civil Requirements	\$6M	\$27M	0 (-\$27M)	\$10M (-\$17M)
DOT: WAAS	\$84M	\$103.6M	\$103.6M	\$103.6M
DOT: Alternative PNT	Unclear	\$3M	\$3M	\$3M
DOT: Nationwide DGPS	\$5.6M	\$5.6M	Unclear	\$5.6M
DOT: GPS Spectrum Protection	\$1M	\$1M	Unclear	\$1M

- \$30M congressional plus-up for advance procurement of two GPS III satellites per year
- Continuing resolution likely for first part of FY 2015

[www.gps.gov/policy/funding/2015](http://www.gps.gov/policy/funding/2015)





# "GPS Tracker" Newsletter



**GPS TRACKER**  
Information for Policymakers from the National Coordination Office for Space-Based Positioning, Navigation, and Timing (PNT)

September 8, 2014

**Analysis: What Could Happen to GPS Funding Under a Continuing Resolution?**  
As Congress returns from recess, they prepare to finalize the legislation necessary to fund the government in FY 2015. With the end of the fiscal year approaching on September 30, it has been widely reported that the most likely outcome will be a short term continuing resolution. In previous newsletters, we have shown the funding marks approved for GPS in the House and Senate appropriations bills. Under a continuing resolution scenario, GPS program elements would be funded at the same levels enacted in FY 2014. As illustrated in the graphic to the right, this would lead to major variances from the budget request. For more details on the FY 2015 budget, visit [www.gps.gov/policy/funding/2015](http://www.gps.gov/policy/funding/2015).

Category	FY15 Request (\$ Millions)	FY14 Enacted (\$ Millions)
GPS IIF Procurement	~50	~280
GPS III Research & Development	~200	~200
OCX	~300	~150
MGUE	~150	~150

**Football Teams Use GPS to Optimize Athletes' Performance**  
A growing number of college and professional football teams are utilizing GPS technology to gain a winning edge over the competition. GPS tracking devices placed on athletes record movements, speed, and quickness data to allow coaches and trainers to maximize the athletes' productivity and reduce the likelihood of injuries. For further reading, we recommend this article: [www.rantsports.com/ucb-bruins-football-player-gps-helping-to-keep-program-on-track](http://www.rantsports.com/ucb-bruins-football-player-gps-helping-to-keep-program-on-track)

**Report to Congress on GPS Multi-Year Procurement**  
In April, the Air Force submitted a report to Congress titled, "Global Positioning System III Space Segment Suitability for Multi-Year Procurement." The report was directed by the Senate Armed Services Committee. At this time, analysis indicates that multi-year procurement contracting for GPS III is not feasible until at least FY 2016. The report does not constitute an Air Force position, but rather one option the Air Force is evaluating for procuring future GPS III satellites at a reduced unit price. To read the report, visit [www.gps.gov/congress/reports](http://www.gps.gov/congress/reports).

**GPS 101 - Fast Facts**  
GPS was originally designed to have 24 satellites in six equally-spaced orbital planes around Earth, ensuring access to at least four satellites from virtually anywhere. Since 2011, the Air Force has flown GPS in an expanded configuration with at least 27 satellites for improved coverage in most parts of the world. Learn more at [www.gps.gov/systems/gps/space](http://www.gps.gov/systems/gps/space).

SPACE-BASED POSITIONING NAVIGATION & TIMING NATIONAL COORDINATION OFFICE  
[www.gps.gov](http://www.gps.gov)

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- Published by National Coordination Office
- Primarily designed for congressional outreach and education
- May be of interest to GPS professionals as well
- Anyone can subscribe or download back issues

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



# Education & Outreach Website



GPS.gov: Professionals Home

www.gps.gov/pros/

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

Home What's New Systems Applications Governance Multimedia Support

For General Public  
For News Media  
For Congress  
For Internationals  
**For Professionals**  
For Students

Registration Open for CGSIC Meeting in Tampa

Upcoming Events

- Monday, September 8: CGSIC Tampa
- Tuesday, September 9: CGSIC Tampa
- Wednesday, September 10: ION GNSS+ 2014 (Tampa)
- Thursday, September 11: ION GNSS+ 2014 (Tampa)
- Friday, September 12: ION GNSS+ 2014 (Tampa)
- Thursday, September 18: ION GNSS+ 2014 (Tampa)

More News for GPS Professionals

- DOT to Host GPS Adjacent-Band Compatibility Assessment Workshop in Cambridge on Sep 18
- GPS Directorate Hosts Aug 22 Open Forum on Interface Control Documents
- GPS IIF-7 Launched Aug 1
- Notice: Known Problem With Certain GPS Devices
  - Technical Explanation from GPSOC (PDF)
- CNAV Message Broadcasts Begin April 28
- Revised Export Controls for GPS Receivers

GPS Service Outages & Status Reports

GPS Program Funding Info

Technical Documentation

- Interface Specifications
  - IS-GPS-200H
  - IS-GPS-705D
  - IS-GPS-800D
  - IS-GPS-870A
- Performance Standards

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CGSIC Plenary Session

- 9:00 **Welcome/Opening**  
Karen Van Dyke, U.S. Department of Transportation, Chair, CGSIC
- 9:05 **Meeting Overview**  
Captain William Burns, Commanding Officer, U.S. Coast Guard Navigation Center (NAVCEN), Deputy Chair
- 9:10 **Keynote Address**  
Brigadier General Ronald Huntley, Director of Plans, Programs & Analyses, U.S. Air Force Space Command
- 9:30 **U.S. National Space-Based PNT Update**  
Jason Kim, Senior Advisor, National Coordination Office for Space-Based Positioning, Navigation, and Timing
- 9:50 **GPS Program Update**  
Colonel Matthew Smitham, Deputy Director, U.S. Air Force GPS Directorate



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# Summary



- GPS receives national-level attention and guidance
- U.S. policy upholds longstanding commitments to free, continuous, worldwide GPS access
- New laws and regulations of interest
- Program funding unresolved for FY 2015
- Stay informed and in touch: [www.gps.gov/pros](http://www.gps.gov/pros)