Civil GPS Service Interface Committee

at the
Munich Satellite Navigation Summit

Alte Kongresshalle, Munich, Germany
March 27, 2019
GPS Civil Users Need A Means For:

- Receiving system information (system status, health and modernization plans).
- Providing civil input/feedback (feedback on adequacy of signals for user needs, new applications).
- Global participation.
- Reporting interference/outages (process for interference detection and mitigation).
- Having an advocate (a means by which system users can be represented in all parts of the system planning and operation).
U.S. Space-Based PNT Organization Structure

WHITE HOUSE

NATIONAL EXECUTIVE COMMITTEE FOR SPACE-BASED PNT
Executive Steering Group
Co-Chairs: Defense, Transportation

NATIONAL COORDINATION OFFICE
Host: Commerce

ADVISORY BOARD
Sponsor: NASA

Civil GPS Service Interface Committee
Chair: Transportation
Deputy Chair: Coast Guard

GPS International Working Group
Chair: State

Engineering Forum
Co-Chairs: Defense, Transportation

Ad Hoc Working Groups
Civil GPS Service Interface Committee (CGSIC)

Chair, DOT/OST-R
Deputy Chair
CO, Coast Guard NAVCEN

International Deputy Chair

Subcommittees
- International Information
- Timing
- Survey, Mapping and Geo-Sciences
- U.S. States and Local Government (Retired last year)

CGSIC Executive Panel Representatives
- Aviation
- Land
- Marine
- Subcommittee Chairs
- State Dept.

CGSIC is the World-Wide Forum Between Civil GPS Users and U.S. Government Service Providers
58th Meeting of the Civil GPS Service Interface Committee

At the Institute of Navigation GNSS+ 2018 Conference
Hyatt Regency Miami
Miami, Florida
September 24-25, 2018
Possible further operational interfaces with similar Service Centres already operational in other regions

- China: BEIDOU
- European Union: Galileo
- Russian Federation: GLONASS
- United States: GPS
- India: IRNSS
- Japan: QZSS

GPS Program activity

- New Satellite: SVN-74/PRN-04
  - Extensive on-orbit testing
  - Wait for USABINIT NANU

- GPS Week Number
  Rollover event
  06/07 April

- GPS Issue of Data, Clock software modification
  - “Sometime in Summer 2019”
  - Should be transparent to IS-GPS-200 compliant receivers
Interference Reporting

U.S. process starts with problem report to NAVCEN, FAA or FCC

- Service Center triage to confirm problem
- Initial interagency conference call to provide for a coordinated government response, discussion on way ahead
- Priority assigned will determine level of response and agencies involved

Interference Report Form:
https://www.navcen.uscg.gov/?pageName=gpsUserInput
CGSIC International Information Subcommittee

CGSIC Overview – Rick Hamilton, Executive Secretariat, Civil GPS Service Interface Committee

GPS Program Status and Modernization – First Lieutenant Daniel Barnes, U.S. Air Force GPS Directorate

GNSS Dependencies in Transportation – Karen Van Dyke, U.S. Department of Transportation, Chair, Civil GPS Service Interface Committee

The Expanding Civil Space User Segment: Reaching for New Frontiers – Joel J. K. Parker, U.S. National Aeronautics and Space Administration (NASA)

GNSS Update from the Department of Commerce – Jason Kim, U.S. Department of Commerce

GPS International Activities – David Turner, Office of Space and Advanced Technology, U.S. Department of State

Speaker panel Q&A