GPS Overview

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Boeing GPS History 40 Year Mission Partner

1970s
- NavWar/ GPS III System
  - System Definition 1997-2004

1980s
- Operational Control Segment (OCS)
  - Ground System Deployed 2007

1990s
- Operational Control Next Gen (OCX)
  - Boeing Current Content Delivered

2000s
- Block IIF
  - First Launch on 27 May 2010
  - 12 of 12 Vehicles launched

2010s
- Block III+
  - SV11+ Solution
  - AFRL Technologies

Continuous On-Orbit Constellation Sustainment & Support

GPS Next

Boeing GPS Mission Capabilities Span GPS Enterprise
Modern GPS Digital Payload – Significant Benefits

- Improves producibility
- Lower cost, Lower SWaP
- Improves performance
- Flexible to respond to evolving mission needs/ adapt to threats

Digital Payload - enabler for modern space segment at a lower cost
Focus Areas

- **Ensuring GPS Gold Standard**
  - Mission Assurance emphasis
  - Meet or exceed performance requirements

- **Resiliency**
  - On-board, off-board protection, cyber
  - Increased mission agility/ adaptability

- **Affordable GPS Architecture**
  - Advancements in low cost spacecraft and payload product-lines
  - Emerging space solutions complement Assured PNT
Summary

- Boeing is using adaptations of proven product line to meet customer unique missions
- Digital Payload enables valuable program and mission advantages
- Significant progress on low cost, low risk GPS capabilities