



GPS Status and Modernization

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Overview

- Critical Asset
- Transition from Utility to Taskable
- Affordability





Critical Asset

- Vital to International Security, Economic Growth, and Public Safety
- Extends across all domains -- air, land, sea, space, cyberspace
- Effects transcend national and military boundaries



Available, reliable, accurate, and free of charge



GPS – Serving the World

- Very robust constellation
 - 31 satellites currently in operation
 - 11 IIA
 - 12 IIR
 - 7 IIR-M
 - 1 IIF
- Global GPS civil service performance commitment met or exceeded continuously since December 1993
- Next Launch – IIF-2, ~June 2011





GPS – Taskable Weapon System

- Historically, GPS has been a “utility”
- Future – Taskable Effects-Based Operations
 - Flex Power is the pathfinder
 - Providing Anti-Jam capability to the warfighter
 - Current: 7 IIR-M & 1 IIF SVs
 - Future: 7 IIR-M & 12 IIF SVs





GPS – Taskable Weapon System

- Effects-Based Operations – Future of Warfare
 - SAASM – Protecting and Preserving the Signal
 - Improving Access for Military Users
 - Enhanced Signal Security
- Future Taskable Capabilities
 - M-Code
 - Spot Beam
 - Crosslinks





GPS – Collaboration

- Working as a Team to Provide the Best PNT Service to the World
 - Net-Centricity
 - Supporting Combat Operations
 - Providing data for Mission Planning





GPS – Affordability is Key

- Affordability is Key
 - We must maintain the Current System
 - Add Capability for the Warfighter
 - Improve Anti-Jam Capability
 - Provide M-Code
 - Add Capability for the Civil Community
 - Access to additional signals
 - Improve system integrity
 - GPS Enterprise Modernization AoA
 - Defining the Next Generation of PNT capabilities





Summary

- Largest constellation in history with best accuracy ever
- Transitioning from utility to a Taskable Weapon System
- Need to provide the Best/Cost Effective System possible

GPS -- Serving the World



GPS Status and Modernization

*Lockheed Martin Customer Focus Team
Conference
23 September 2010*

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