Air Force Communications Agency

Integrity - Service - Excellence

AF IPv6 Transition



Mr Eric Lubeck AFCA 20 Feb 2007



AFCA's Mission



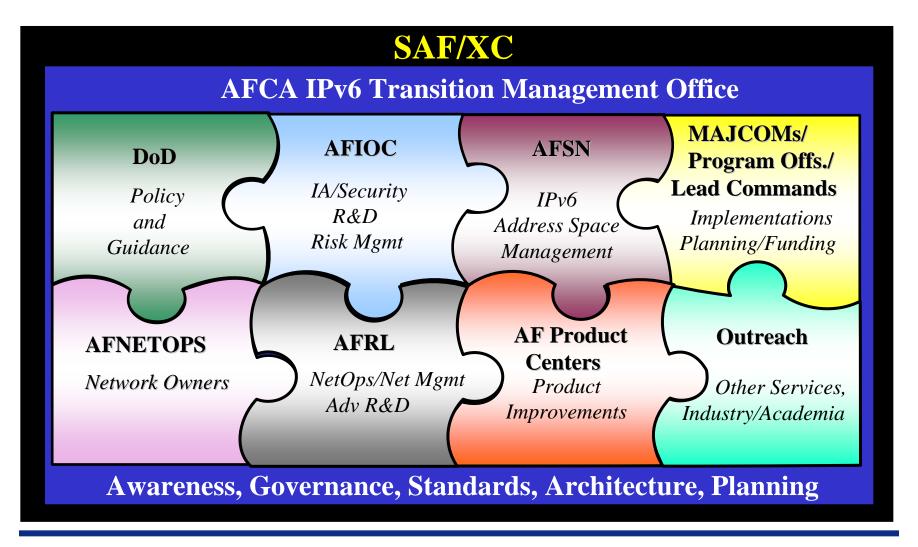


Reduce the latency in the kill chain



AFCA IPv6 TMO Context





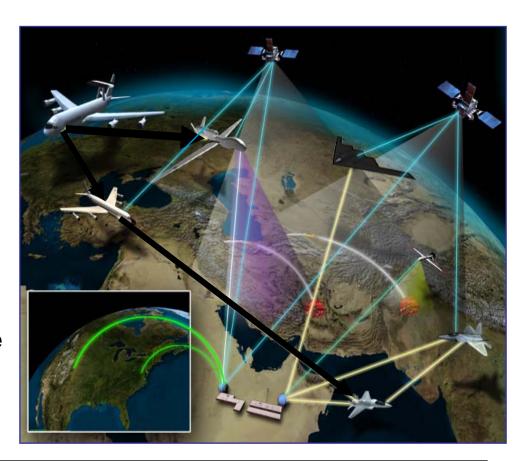


IPv6 Operational Impacts



AF networks of the future will be:

- Ad-hoc (assembled on the fly) conducive to agile warfighter
- Self-forming -- able to discover other members of the network and any available resources for information sharing, targeting, weapons deployment
- IPv6 capabilities shortens kill chain (F2T2EA)
 - Sensor-to-Shooter Network
 Dynamically Forms to Enable
 M-2-M Communications

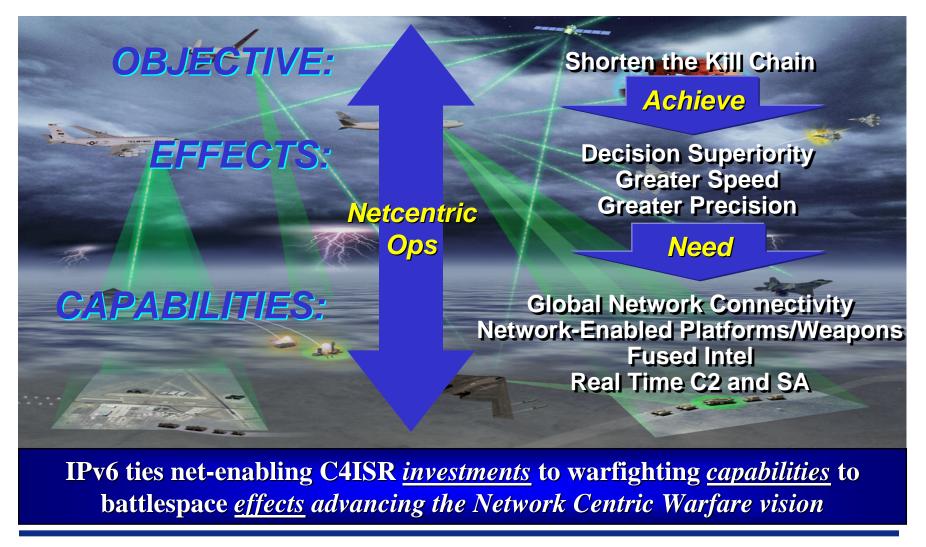


IPv6 Enables These Future Networks!



Why Transition to IPV6?







Tiered Approach for Major Programs and Networks



- Assumption: Focusing on terrestrial today
- Tier 0 Transport
 - Combat Information Transport System (CITS), Theater Deployable Comm (TDC), MAJCOM 1st 400' (remaining infrastructure)
 - Ground Entry Points, DCGS, TBONE, Sensor Bus (High Side)
- Tier 1 Network Operations/Information Assurance
 - CITS Net Management/Net Defense, Active Directory, Public Key Infrastructure, HAIPE 3.0 Upgrade
 - Standard Desktop, Air Operation Center Base Security System
- Tier 2 Enterprise Services
 - GCCS, GCSS, NCES, TBMCS, all other "major" programs
- Tier 3 Other non mission critical system

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