Achieving Networthiness: Implementing the AFNet Integration Process

Air Force Network Integration Center

AFNIC/NW

February 2012

What is Networthiness?
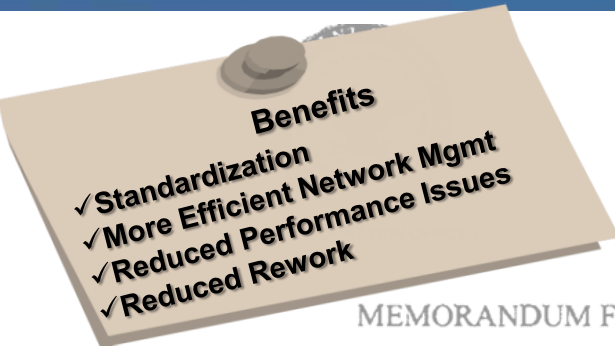
How Did We Get Here?

AF Implementation

DoD Interim Guidance

Proposed Roles & Responsibilities

Way Ahead

AFNIC

Benefits
- ✓ Standardization
- ✓ More Efficient Network Mgmt
- ✓ Reduced Performance Issues
- ✓ Reduced Rework

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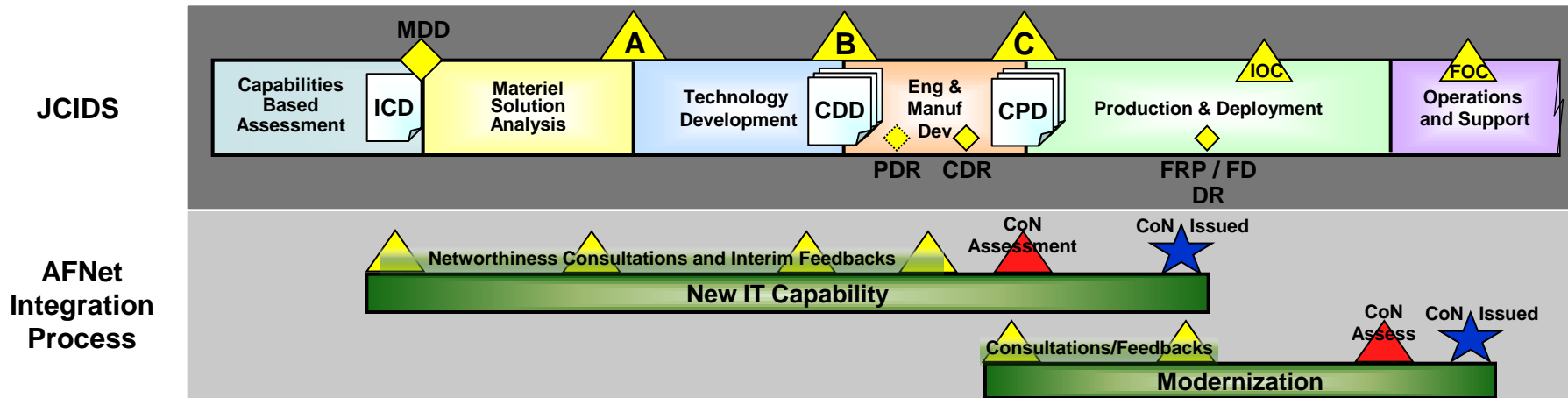WASHINGTON, D.C. 20301-6000

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MEMORANDUM FOR SECRETARIES OF THE MILITARY DEPARTMENTS
CHAIRMAN OF THE JOINT CHIEFS OF STAFF

DoD Networthiness Definition

Networthiness is the result of an operational assessment of IT to verify compliance with security, interoperability, supportability, sustainability, and usability regulations, guidelines, and policies as issued by Federal, DoD, and Combatant Command/Service/Agency Components.
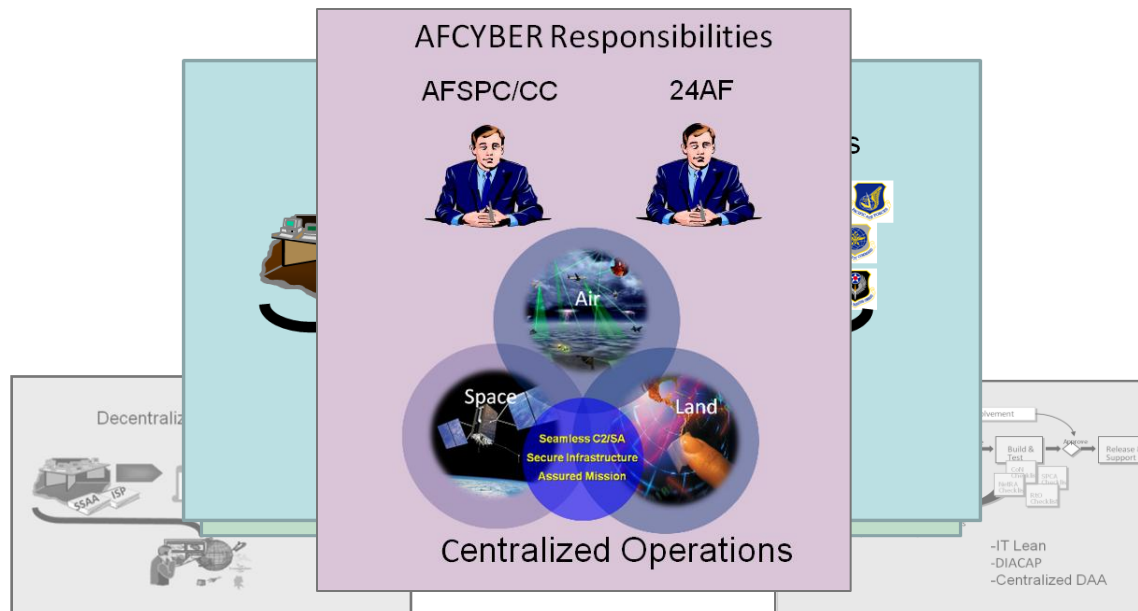
AFNet Integration Process

Integrates Networthiness standards into a repeatable process to validate IT Capabilities meet all required standards to connect to the AFNet. Should run in tandem with acquisition process.

JCIDS

MDD | A | B | C | IOC | FOC

| Capabilities Based Assessment | ICD | Materiel Solution Analysis | Technology Development | CDD | Eng & Manuf Dev | CPD | Production & Deployment | Operations and Support |

PDR   CDR   FRP / FD DR

AFNet Integration Process

Networthiness Consultations and Interim Feedbacks

CoN Assessment   CoN Issued

New IT Capability

Consultations/Feedbacks

CoN Assess   CoN Issued

Modernization

Changes in the Air Force

1. **Certificate of Networthiness (CoN)**
2. **IT Lean - SISSU**
3. **Centralization of network**
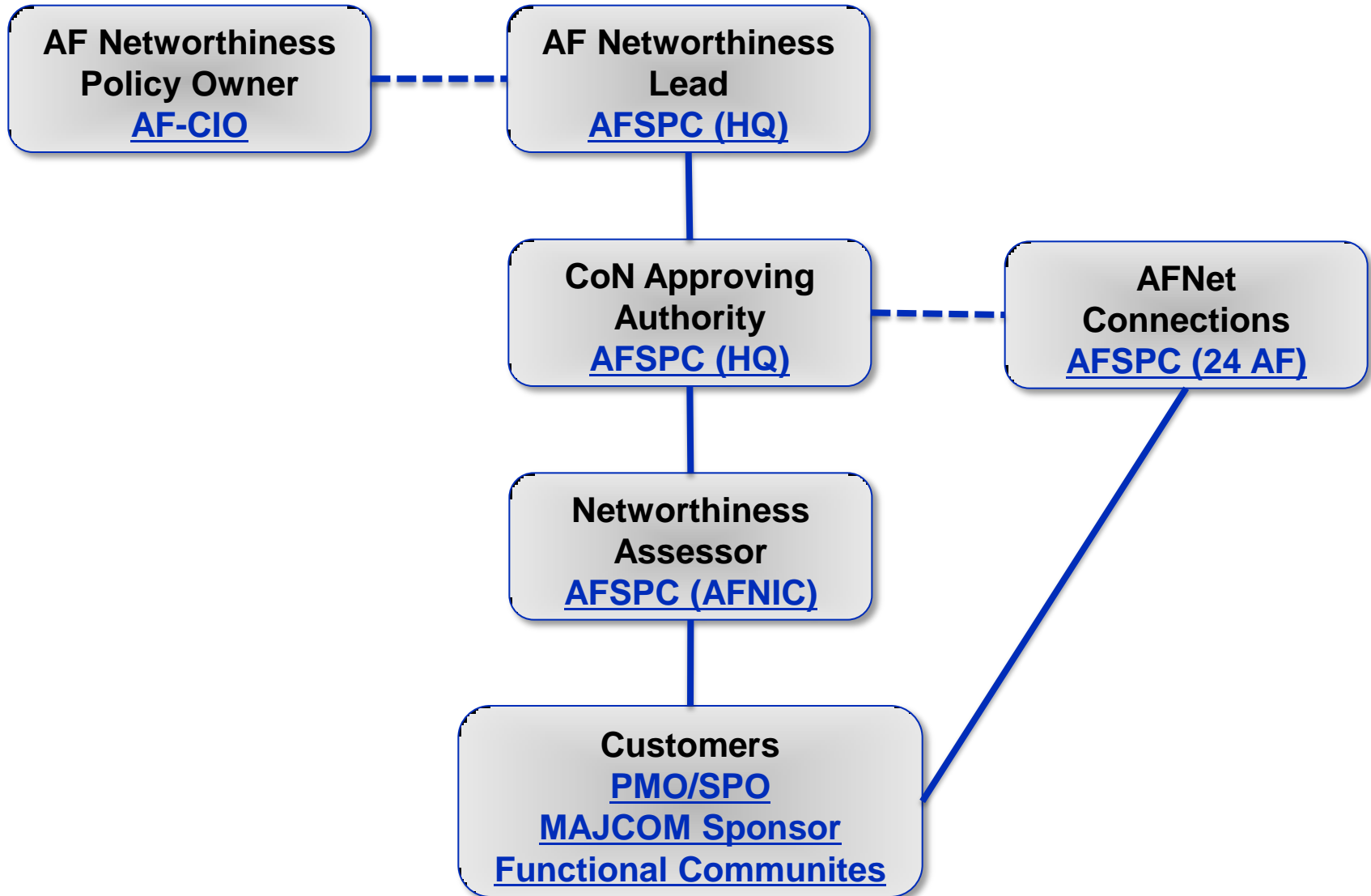4. **Improved C2 of network**

Lack of Holistic Review

- **Replaces Authorization to Connect (ATC) with Certificate of Networthiness (CoN)**
- **Implementation will integrate into current acquisition life cycle and requirements processes**
- **Implementation will be a phased approach**
  - **Initial criteria checks will be verification of existing artifacts; high level checks for standards**
  - **FOC criteria checks will be more qualitative**
  - **Initial focus will be on new connections**
- **Early consultations on development/procurement plans will result in smooth CoN issuance**

AFNIC

Acquisition Guidelines & Usability	Security	Interoperability	Supportability & Sustainability	Network Utilization	DoD Policy Compliance
• Employed technical standards list • User acceptance evidence • CCR Evidence for all vendor manufacturers • DoD enterprise architecture compliance • Clinger Cohen Act compliance (not required for non-ACAT systems)	• Security criteria compliance evidence • Ports, Protocols and Services (PPS) Identification • Computer Network Defense Service Provider (CNDSP) Identification	• NR-KPP Compliance • Interoperability criteria compliance evidence • Evidence of IPv6 • Data flow Description	• Resource Support Plan evidence to include dedicated funding stream documentation • Documented installation information to include facilities requirements • Documented implementation and transition plan • Documented configuration management plan • Training plan evidence to include documentation of help desk availability	• Radio frequency • Spectrum registration • Wireless Capability documentation • Bandwidth utilization documentation • SATCOM requirements	• Waivers information

Acquisition Guidelines & Usability	Security	Interoperability	Supportability & Sustainability	Network Utilization	DoD Policy Compliance
• Standards Profile • Formal user acceptance memorandum • CCR number(s) • Relevant artifacts from DoD Information Enterprise Architecture, Appendix G • Relevant artifacts from DoDI 5000.02	• DIACAP Package • Authorization to Operate (ATO) • List of ports, protocols, and services • Designation of Computer Network Defense Service Provider in writing	• Information Support Plan • Joint Interoperability Test Center (JITC) Interoperability Certification • Joint Staff (JS) Interoperability & Supportability (I&S) Certificate • UC Approved Products List (APL) or Unified Capabilities Requirements (UCR) Standards verification • IPv6 Compliance Verification	• Service Level Agreements • Information Support Plan • Joint Staff (JS) Interoperability & Supportability (I&S) Certificate	• Radio Frequency Approval (DD FM1494 signed off by MCEB Panel) • Spectrum registration number • Joint Staff (JS) Interoperability & Supportability (I&S) Certificate	• Formal waiver memos

AFNIC

AF Networthiness Policy Owner
AF-CIO

AF Networthiness Lead
AFSPC (HQ)

CoN Approving Authority
AFSPC (HQ)

AFNet Connections
AFSPC (24 AF)

Networthiness Assessor
AFSPC (AFNIC)

Customers
PMO/SPO
MAJCOM Sponsor
Functional Communites

AFSPC

- **Release Networthiness Interim Policy memo**
- **Provide phased Implementation plan**
- **Establish Networthiness assessment standards**
- **Refocus design attributes to comply with standards**
- **Provide Networthiness reviews of artifacts**
- **Provide technical CON recommendations**
- **Issue CONs for Network Connection**

PMOs/SPOs/Developers

- **"Bake In" Networthiness Standards**
- **Request "quick look" consultations early**