Middle Tier Acquisition and Other Rapid Acquisition Pathways

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Purpose / Outline

To provide an overview of rapid acquisition pathways made available by recent National Defense Authorization Acts (NDAAAs)

- Section 804 Middle Tier – Rapid Prototyping and Rapid Fielding
- Section 806 – Development, Prototyping, Deployment of Weapon System Components
- DODI 5000.02 Tailoring and Accelerated Acquisition Model 4
- DODI 5000.02 Enclosure 13 Urgent Capability Acquisition
- FAR Direction
- Service Implementation Direction
# Rapid Acquisition Pathways

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<th>DODI 5000.02 Model 4 Accelerated Acquisition</th>
<th>DODI 5000.02 Enclosure 13 Urgent Capability Acquisition</th>
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<tbody>
<tr>
<td><strong>Summary</strong></td>
<td>Rapid Prototyping and Rapid Fielding</td>
<td>SAE selected most promising prototype</td>
<td>Aggressively tailor when schedule is king</td>
<td>Fulfill urgent operational needs</td>
</tr>
<tr>
<td><strong>Requirement</strong></td>
<td>“Approved requirement”</td>
<td></td>
<td>JCIDS</td>
<td>UON, JUON, or JEON by CCDR or VCJCS</td>
</tr>
<tr>
<td></td>
<td>Exempt from JCIDS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Timelines</strong></td>
<td>Field &lt;5 years; Production start &lt; 6 months</td>
<td>Complete within 2 years</td>
<td>None</td>
<td>Field within 2 years</td>
</tr>
<tr>
<td><strong>Funding Limit</strong></td>
<td>None</td>
<td>$10M or $50M if Secretary approve</td>
<td>None</td>
<td>Below ACAT I and IA</td>
</tr>
<tr>
<td><strong>Other Factors</strong></td>
<td>Exempt from 5000 PM reports to SAE</td>
<td>Budgeted separate from PoR</td>
<td>MDAPs have statutory requirements that limit speed</td>
<td>No JCIDS once initial doc signed</td>
</tr>
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</table>
## Section 804 Middle Tier of Acquisition

### Rapid Prototyping

- Use innovative technology to rapidly develop fieldable prototypes to demonstrate new capabilities, meet emerging military needs
- Field a prototype demonstrated in an operational environment
- Residual operational capability within 5 years of requirement

### Rapid Fielding

- Use proven technologies to field production quantities of new or upgraded systems with minimal development
- Begin production within 6 months
- Complete fielding within 5 years of requirement

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FY16 NDAA Section 804
Section 804 Overarching Guidance

- Guidance required shall provide for a streamlined and coordinated requirements, budget, and acquisition process
  - Develop an approved requirement for each program in a period of not more than 6 months from the process initiation

- Shall not be subject to JCIDS and DODD 5000.01

- DoD Rapid Prototyping Fund
  - For acquisition programs under the rapid prototyping pathway
  - Consist of appropriated funds and those credited by section 828
  - Managed by a senior DoD official designed by AT&L
  - Shall notify the congressional defense committees of all transfers
804 Roles for “Defense Streamlined Program”

- **SAE**
  - SAE is MDA (in coordination with AT&L)
  - Shall appoint PM and evaluate PM job performance annually

- **Program Manager**
  - Shall report directly to the SAE
  - Authorized to staff positions to manage the program without another organization to the maximum extent practicable
  - Authorized to make cost, schedule, requirements trade-offs in coordination with the users and testers
  - Expeditiously seek Congressional waiver from any statutory or regulatory requirement they determine add little/no value to program
Potential 804 Rapid Pathways

- Approved Requirement (No JCIDS)
  - Rapid Prototyping
    - IOC or MVP
    - ≤5 Years
  - Rapid Fielding (Production)
    - <6 Month Start
    - ≤5 Years
    - O&S of Operational Capability
    - New or Existing Program
    - Another Prototype
Traditional Program vs 804 Rapid Program

Traditional Program

- MDD
- A: MSA Phase
- B: TMRR Phase
- C: EMD Phase
- D: P&D Phase
- MDD: ICD
- A: Draft CDD
- B: CDD
- C: CPD
- AoA
- Prototypes
- Design
- Develop
- Produce

Section 804 Rapid Program

- Approved Requirement (No JCIDS)
- Rapid Prototyping
- ≤5 Years
- O&S of Ops Capability
- Rapid Fielding (Production)
- ≤6 Month Start
- ≤5 Years
- New/Existing Program
- Another Prototype
- IOC
- FOC

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USD(A&S) Memo on Middle Tier Acquisition

- Ms. Lord provided DoD Components interim authority to implement 804
- Develop rapid prototyping and fielding processes and procedures
- NLT Jan 2019, A&S and Components will collaborate on 804 policy
- Requires collection of key data on programs: name, capability gap, source, funding, dates, result, vendors
- Identify policy changes to enable greater success in implementing 804

USD(A&S) memo 16 Apr 18
Projects selected by the SAE as being one of the most promising, innovative, and cost-effective prototypes that is expected to be successfully demonstrated in a relevant environment

- Must be completed within 2 years
- Limited to $10M
  - Could be funded up to $50M if Secretary approved, Congress notified
- Prototypes shall be funded through contracts, cooperative agreements, or OTAs
  - Prototypes can be budgeted separately from a PoR and excluded from MDAP costs
- Exempt from JCIDS

FY17 NDAA Section 806
806: Development, Prototyping, Deployment of Weapon System Components or Tech (2)

- SAE may select the project for **follow-on production contract or OT without competition** if
  - Addresses a high priority warfighter need or reduces the costs of a weapon system
  - Competitive procedures were used for the selection of parties for participation in the original prototype project
  - Participants in the original prototype project successfully completed the requirements of the project; and
  - Prototype of the system to be procured was demonstrated in a relevant environment.

- Each Service Secretary will establish an **oversight board** or group of senior advisors to manage prototype projects
Potential Section 806 Pathways

- Approved Requirement (No JCIDS) → Rapid Prototyping
  - ≤2 Years
  - IOC or MVP

- Rapid Prototyping →
  - O&S of Operational Capability
  - Follow-On Production (No Competition if…)
  - Another Prototype

- New or Existing Program of Record
“The **structure** of a DoD acquisition program and the **procedures** used should be **tailored as much as possible** to the characteristics of the product being acquired, and to the totality of circumstances associated with the program including operational urgency and risk factors.”

“**MDAs will tailor**

- program strategies and oversight including
- program information
- acquisition phase content
- timing and scope of decision reviews and decision levels based on the specifics of the product being acquired, including complexity, risk factors, and **required timelines** to satisfy validated capability requirements”
DODI 5000.02 Model 4: Accelerated Acquisition

- When **schedule** considerations dominate over cost and technical risk.
- Compresses or eliminates phases of the process and accepts the potential for inefficiencies in order to deploy capability on a compressed schedule.
- The model shows one example of **tailoring** for accelerated acquisition and many others are possible.
- This type of structure is used when technological surprise by a potential adversary necessitates a higher-risk acquisition program.
Provide capabilities to fulfill urgent operational needs and other quick reaction capabilities that can be fielded in **less than 2 years** and are below the cost thresholds of ACAT I and IA programs.

- UON, JUON, JEON
- Exempt from JCIDS

[https://aida.mitre.org/dodi-5000/rapid-fielding-of-capabilities/](https://aida.mitre.org/dodi-5000/rapid-fielding-of-capabilities/)
FAR Direction – Simple, Innovative, Modular

- Agencies shall use simplified acquisition procedures to the maximum extent practicable for all purchases of supplies or services not exceeding the simplified acquisition threshold. –FAR 13.003

- The System should also, however, encourage innovation, and local adaptation where uniformity is not essential. –FAR 1.102-2(b)(2)

- The contracting process shall be used to encourage the best sources from the scientific and industrial community to become involved in the program and must provide an environment in which the work can be pursued with reasonable flexibility and minimum administrative burden. –FAR 35.002

- Modular contracting is intended to reduce program risk and to incentivize contractor performance while meeting the government’s need for timely access to rapidly changing technology. Consistent with the agency’s IT architecture, agencies should, to the maximum extent practicable, use modular contracting to acquire major systems (see 2.101) of IT. Agencies may also use modular contracting to acquire non-major systems of IT. –FAR 39.103
SAF/AQ: 7 Steps for Incorporating Rapid Prototyping into Acquisition

1. Have an aggressive goal
2. Bound your risks
3. Be aggressive but not greedy
4. Constrain time and budget, not the final performance
5. It takes a team to go fast
6. Get a signature from me
7. GO FAST
Rapid Acquisition Pathways

- **Middle-Tier 804***
  - Rapid Prototyping
    - ≤5 Years
  - ≤2 Years

- **Prototyping 806***
  - ≤$10M or $50M w/Secretary approval
  - ≤2 Years

- **5000.02 Model 4 Accelerated Acquisition**
  - Analysis
  - MS A/B
  - Tech Maturation, Risk Reduction, Development
  - ≤2 Years
  - MS C
  - IOC
  - FOC
  - Production Deployment

- **5000.02 Encl 13 Urgent Capability Acquisition***
  - UONs
  - JUONs
  - JEONs
  - ≤2 Years

- **Rapid Fielding (Production)**
  - ≤5 Years
  - <6 Month Start

- **SUSTAINMENT**
  - Program of Record

- **Rapid Acquisition**
  - Heavily Tailored to Meet Accelerated Schedule

* No JCIDS
** JCIDS
*** UON signed by CCDR/VCJCS
BACKUP SLIDES
FY16 NDAA, Section 803
Expansion of Rapid Acquisition Authority

- When SECDEF determines in writing that any **supplies and associated support services** are urgently needed to eliminate a deficiency that have or could result in
  - Combat casualties
  - Critical mission failure
  - Cyber attack

- SECDEF authorizes senior official to **waive any law, policy, directive, or regulation** that would impede the rapid acquisition and deployment of supplies and support services

- Limited to **$200M/year in aggregate**
- SECDEF shall notify Congress in 10-15 days
- Any acquisition initiated shall transition to normal acquisition system within 2 years

Unclear what action if any OSD has taken to implement this
FY16 NDAA Section 805
Use of alternative acquisition paths to acquire critical national security capabilities

- Not later than 180 days after enactment SECDEF shall establish procedures for **alternative acquisition pathways** to acquire **capital assets and services** that meet critical national security needs.

- The procedures shall—
  - be separate from existing acquisition procedures
  - be supported by streamlined contracting, budgeting, and requirements processes
  - establish alternative acquisition paths based on the capabilities being bought and the time needed to deploy these capabilities
  - maximize the use of flexible authorities in existing law, regulation

Unclear what action if any OSD has taken to implement this
SECDEF shall conduct a **pilot program for non-traditional defense contractors and small business concerns**

Design, develop, and demonstrate innovative prototype military **platforms** of significant scope for the purpose of demonstrating new capabilities that could provide alternatives to existing acquisition programs and assets.

Authorized to be available $250M from Rapid Prototyping Fund

Maximize use of
- BAAs or other merit-based selection procedures
- DoD Acquisition Challenge Program authorized by 10 USC 2359b
- The foreign comparative test program
- DoD Rapid Innovation Program projects or Phase III agreement of the Small Business Act
- Streamlined acquisition procedures FY16 NDAA sections 804, 805

Unclear what action if any OSD has taken to implement this
Non-Traditional and Small Contractor Innovation Prototyping Program (2)

As part of the pilot program, SECDEF shall allocate up to $50,000,000 on a fixed price contractual basis for FY17 for demonstrations of the following capabilities:

- Swarming of multiple unmanned air vehicles.
- Unmanned, modular fixed-wing aircraft that can be rapidly adapted to multiple missions and serve as a fifth generation weapons augmentation platform.
- Vertical takeoff and landing tiltrotor aircraft.
- Integration of a directed energy weapon on an air, sea, or ground platform.
- Swarming of multiple unmanned underwater vehicles.
- Commercial small synthetic aperture radar (SAR) satellites with on-board machine learning for automated, realtime feature extraction and predictive analytics.
- Active protection system to defend against rocket-propelled grenades and anti-tank missiles.
- **Defense against hypersonic weapons, including sensors.**
- Other systems as designated by the Secretary.