U.S. European Command Technology Requirements

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United States European Command

"Stronger Together"

Mission

- Defend the Homeland forward and support U.S. strategic interests

  - Maintain ready forces for global operations

  - Secure strategic access and enable global freedom of action

  - Enhance trans-Atlantic security through support of NATO

  - Promote regional stability

  - Counter terrorism

Building Partner Capacity is essential
to all our efforts

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Technology Solutions

- EUCOM needs innovative technology solutions to emerging and persistent security concerns

- These solutions may involve non-traditional partnerships executing on accelerated schedules

- These partnerships will need to include:

  - Government agencies with equities in the problem

  - Prime contractors with success in DoD acquisition

  - Small technology providers that are adaptive and agile

  - A coordinating entity to bring it all together

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Technologies of Interest
(1 of 8)

- Building Partner Capacity

  - Multi-modal collaboration tools using non-proprietary software that adheres to internationally recognized open standards and is free of ITAR restrictions

  - Cross-language tools that support mixed-mode collaboration

  - Portable, renewable power generation, storage, and distribution to self-configuring grids

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Technologies of Interest (2 of 8)

- ## Information Sharing

  - Cross-domain VTC

  - Dynamic language translation for chat and HTML sites

  - Advanced modeling for decision-support of environmental areas of regional interest

- ## Socio-Cultural and Regional Awareness

  - Large data-volume collection and visualization capability across all classifications and specified taxonomies, with modeling & simulation to project alternative futures

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Technologies of Interest
(3 of 8)

- Non-Lethal Weapons (NLW)

  - Halt or disable personnel out to 300 meters

  - Halt or disable

    - Ground vehicles up to 500 meters

    - Surface maritime vessels up to 850 meters

  - Enhance high energy lasers and high powered microwaves to provide NLW capability

    - Smaller size

    - Lower weight

    - Less power

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Technologies of Interest
(4 of 8)

- Biometrics

  - High-volume, multi-national biometrics matching capability providing firewalled query access to participating nations' biometrics databases with broad category match indications

  - Advanced biometric identification capability to include: facial; voice; iris; and long-distance, high-speed DNA

  - Infrastructure for sharing biometric information

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Technologies of Interest
(5 of 8)

- Persistent ISR
  - Low cost
  - Small logistics tail
  - Minimal operational manpower
  - Expendable equipment
  - Day/night and all-weather
  - Automated processing
  - In-theater tasking

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Technologies of Interest
(6 of 8)

- Enhanced Logistics Capabilities
  - Point of Need Delivery
    - Reduced requirements for supporting infrastructure
    - Reduced dependence on foreign oil
  - Hybrid Airships
    - Green efficiency
    - Heavy Lift
    - Avoid logistics choke points
    - Outsized cargo
    - ISR capabilities

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Technologies of Interest

- Cyberspace Domain Awareness

  - Enhanced ability to monitor and influence network operation

  - Increased cyber intelligence, surveillance, and reconnaissance

  - Greater information assurance

  - Reduced reaction time

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Technologies of Interest (8 of 8)

- Technology Enablers

  - Low-cost, configurable, multi-purpose small satellites

  - Low-cost small satellite launch platforms

  - Long-life, high-density power storage and management at all levels: from individual soldier through theater

  - Precision location and navigation independent of GPS

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