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DEPARTMENT OF DEFENSE  
US FORCES AFGHANISTAN  
KABUL, AFGHANISTAN  
APO AE 09356

USFOR-J2

2 July 2010

MEMORANDUM FOR Deputy Commanding General for Support, USFOR-A

SUBJECT: (U) Advanced Analytical Capability Joint Urgent Operational Need Statement

1. Intelligence analysts in theater do not have the tools required to fully analyze the tremendous amounts of information currently available in theater.
2. The impact of this shortfall is felt in almost every activity that intelligence supports. Analysts cannot provide their commanders a full understanding of the operational environment. Without the full understanding of the enemy and human terrain, our operations are not as successful as they could be. This shortfall translates into operational opportunities missed and lives lost.
3. The enclosed need statement describes the capabilities required to ensure our analysts have the tools needed to provide the best analysis required for success in our tough COIN operations.
4. Point of contact is Mr. Pat McNiece, J2 Collection and Requirements, DSN 237-9535, SIPR email: [patrick.b.mcniece@afghan.swa.army.smil.mil](mailto:patrick.b.mcniece@afghan.swa.army.smil.mil).

  
MICHAEL T. FLYNN  
MG, USA  
Deputy Chief of Staff, Intelligence

Enclosure

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## JOINT URGENT OPERATIONAL NEED (JUON) REQUEST

**(U) Title:** USFOR-A Request for Advanced Analytical Capability in Afghanistan (U)

**(U) Reference:**

**(U) Submitted by:** USFOR-A J2 Collection and Requirements

**(U) Date Certified/Prioritized by Combatant Commander:**

**(U) Relative Priority:**

**(U//FOUO) General Description:** US intelligence analysts in Afghanistan have several tools available to access the ever-increasing amount of intelligence and battlefield information residing in a myriad of databases. These tools provide access to the information, some more readily than others, but provide little in the way of improved analytical support. Advanced analytical tools are critical for providing the required intelligence support to population-centric operations.

Current tools do not provide intuitive capabilities to see the relationships between a wide variety of disparate sets of information. They do not allow easy viewing of the information in multiple formats such as link diagram, geo-spatial, histogram, timeline, time wheel and data reports. They do not provide significant network-wide collaborative capabilities. They do not provide the ability to support low-bandwidth or frequently disconnected users with a data sub-set tailored to their area of operations.

There is a critical need to enable analysts in theater with these capabilities to provide our commanders a better understanding of the complex COIN environment in which they operate. Solving these data manipulation, visualization and understanding requirements will significantly improve our ability to successfully conduct population-centric operations.

**(U//FOUO) Mission and Threat Analysis:** Counterinsurgency operations are among the most complex, especially in the Afghan environment. USFOR-A has been challenged in this environment to fully understand the multi-faceted situation. The enemy is able to take advantage of his ability to hide in plain sight in the population because we have been unable to fully exploit the information/intelligence we already have. Detainees with existing connections to the insurgency have been released because we could not fully understand or exploit the information we held. Negative influencers are able to continue hindering progress because we are unable to fully understand their methods and connections. Conversely, we don't know how many opportunities to positively influence events have been lost due to our failure to maximize our understanding of the environment.

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**(U//FOUO) Structuring and Organization of Capabilities:** This JUON is a request for a theater-wide web-based advanced analytical platform to store, organize, access, retrieve and enable full understanding of intelligence and information from multiple large disparate data sets. We require this capability on three networks: a small capability on JWICS and larger-scale installations for SIPR and the CENTRIXS-ISAF Network (CXI). The SIPR network should support SIPR REL for ACGU users. The capability should provide a client-server architecture wherein users at headquarters or high-bandwidth locations access a regional server using their existing workstation. Low-bandwidth or frequently disconnected users should be provided a laptop capable of maintaining the data and applications.

### **(U//FOUO) Critical Performance Specifications:**

- (High Priority) The system will interface with and allow rapid access to existing intelligence and information databases such as CIDNE, DCGS-A, BATS, M3, TIGR, Theater Exploitation Database (TED) and a wide variety of other data sources.
- (High Priority) The system will provide intuitive capabilities to see the relationships between and interact with a wide variety of disparate sets of information in multiple different and flexible views. Specifically the system will provide the following integrated functionalities:
  - The ability to query multiple data sets (held centrally or imported locally via database or spreadsheet)
  - The ability to easily view and manipulate this information in multiple formats (per below) simultaneously or to easily switch between them with one button click to facilitate/improve understanding
  - The ability to create / update / view link diagrams inside different viewing environments such as browser, word documents, map display or the link diagram itself (without onerous detailed entries such as Analyst Notebook)
  - The ability to automatically create a variety of histogram views based on existing data elements (for example, CIDNE IED data auto-creates histograms for IED type, province, district, target, etc.)
  - The ability to show data in a scalable geospatial view, with multiple map/imagery background selections, to quickly create density maps and to be able to query, select and filter data from this view
  - The ability to show data in timeline view, scalable to period desired and to be able to select and filter data from this view
  - The ability to show data in time wheel view with multiple selections for the categories mapped on axis and radius
  - The ability to show data in normal browser/reports view and to select and filter data from this view
- (High Priority) The system will provide significant collaborative capabilities such as ability to share data and results network-wide.
  - This includes the ability to easily publish final results/products or share works in progress with other users

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- The shared information will include not just the product, but the entirety of the data and queries used, views of the maps, link diagrams, histograms, etc.
- The system should have quick and integrated export to PowerPoint, jpg, html Analyst Notebook and other publishing formats.
- (High Priority) The system will provide the ability to support low-bandwidth or frequently disconnected users with a data sub-set tailored to their area of operations and the applications to use it, as well as the capability to report and update information when re-connected to the network.
  - Users at/near the tactical edge who have only part-time connectivity should be able to use all the above applications on their own specific sub-set of data based on their assigned battle space, even when disconnected.
  - This data set should update while the user is connected to the network and should also feed user reports/work back to the central database for wider use.

**(U/FOUO) Non-Material Alternatives:** There are no known non-material options or alternatives that could meet this capability requirement.

**(U/FOUO) Potential Material Alternatives:** None identified.

**(U/FOUO) Potential Resource Tradeoffs:** None identified.

**(U/FOUO) Constraints:** None identified.

**(U/FOUO) Point of Contact (POC):** USFOR-A/ISAF J2 Collection and Requirements, Mr. Pat McNiece, DSN 318-237-9535, SVOIP 308-237-1584, SIPR email: [patrick.b.mcniece@afghan.swa.army.smil.mil](mailto:patrick.b.mcniece@afghan.swa.army.smil.mil).

**(U/FOUO) Authorized by:** MG Flynn, ISAF/USFOR-A J2.

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## Requirement / Architecture Summary

1. CXI Network. Combination of regional and, where needed, brigade servers and mobile users. Detailed estimate provided in attached spreadsheet. Summary includes:

- a. Approximately 29 servers supporting almost 4,500 users.
  - b. Approximately 1,750 mobile devices.
- Spreadsheet notes US vs Coalition requirements.

2. SIPR Network. Combination of regional and, where needed, brigade servers and mobile users. Summary includes:

- a. Approximately 18 servers supporting almost 3,000 users.
  - b. Approximately 625 mobile devices.
- Spreadsheet notes US vs 5-Eye Coalition requirements.

3. JWICS Network. Server-client only. Regional servers at the following locations:

- a. Kabul to service JIOC-A, IJC, CFSOCC-A, SOF, NTM-A/CSTC-A (approximately 100 users).
  - b. Bagram to service CJTF-101, SOTF, CJSOTF-A, BCTs (approximately 100 users).
  - c. Kandahar to service KIFC, KFC and BCTs (approximately 100 users).
  - d. Other JWICS users in theater will access one of these servers.
- Summary: 3 server locations servicing approximately 300 users.

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