Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Army												Date: May 2017
Appropriation/Budget Activity 2040: *Research, Development, Test & Evaluation, Army* / BA 7: *Operational Systems Development*					R-1 Program Element (Number/Name) PE 0307665A / *Biometrics Enabled Intelligence*							
COST ($ in Millions)	**Prior Years**	**FY 2016**	**FY 2017**	**FY 2018 Base**	**FY 2018 OCO**	**FY 2018 Total**	**FY 2019**	**FY 2020**	**FY 2021**	**FY 2022**	**Cost To Complete**	**Total Cost**
Total Program Element	-	0.000	8.854	2.537	6.036	8.573	0.000	0.000	0.000	0.000	0.000	17.427
BI7: *BIOMETRICS ENABLED INTELLIGENCE - MIP*	-	0.000	8.854	2.537	6.036	8.573	0.000	0.000	0.000	0.000	0.000	17.427

A. Mission Description and Budget Item Justification

Product Lead Biometrics Automated Toolset-Army (BAT-A) manages two Army biometric tactical collection devices, the Biometric Automated Toolset-Army (BAT-A) Kit and BAT-A Handheld (HH). These two devices support the Army Force Protection Mission and Identity Dominance Mission. The BAT-A system is the Army's biometric tactical collection devices which collect, match, store, and share biometric and contextual information on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals. Recipients of collected information include DoD organizations, other U.S. government agencies, and Coalition Partners. The BAT-A devices are also used by non-Military Intelligence personnel (Infantry and Military Police). The capability was originally deployed as a Quick Reaction Capability (QRC) and has been deployed in a combat zone and other OCONUS contingency operations for the past decade. The current BAT-A systems will serve as the Army biometrics enduring capability through FY22. All research and development efforts are now concluded for BAT-A. PL BAT-A will continue to serve as the Office of Primary Responsibility as the BAT-A is now a Post Milestone C program of record in sustainment.

The FY18 Base Funding of $2.537 million supports the program efforts to begin the transition phase from the current BAT-A POR configuration to the updated Next Generation Biometric Collection Capability (NXGBCC) to replace BAT-A. The NXGBCC will be a part of the DoD Biometric Enterprise to protect and support the warfighter and nation through global identity superiority. The NXGBCC shall collect, match, store, share, analyze, reference, and manage contextual data and biometrics. This includes iris, fingerprint, facial images, palm prints and voice on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals to inform the warfighter in a decide/act response. Recipients of collected information include DoD organizations, other U.S. government agencies, and Coalition Partners.

The FY18 OCO funding provides continued support for Five Vigilant Pursuit System Sets (10 vehicles total plus equipment) are currently deployed in support of OFS and OIR. The Vigilant Pursuit System currently consists of 2 vehicles with integrated Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages installed on MATVs.

FY18 OCO Funding of $3.886 million supports developmental activities to create modularized, vehicle-independent and tailorable Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages that can be installed and removed in a matter of minutes on any vehicle type to meet specific mission needs. Specific activities include hardware development for critical hardware components that cannot be commercially procured necessary to refactor the Multi-INT capability packages to work on any vehicle platform and software development necessary to replace/upgrade open source code that is no longer current/viable and is therefore more difficult and expensive to maintain or completely unusable.

Lastly for FY18, the OCO Funding of $2.150 million supports the development of new software code & associated testing necessary to deliver an instance of the Biometric Intelligence Information Repository (I2AR) a replacement for the Biometrics Identity Intelligence Repository (BI2R -the unique software-based analytic

production system used by NGIC specifically to create the Biometric Enabled Watchlist for OFS and other worldwide missions) on the Intelligence Community Information Technology Environment (IC ITE) C2S cloud. The new, more capable software will facilitate automated information exchange with complimentary community programs resident on the IC ITE C2S cloud to support the production of a Biometrically Enabled Watchlist (BEWL) containing all available IC Biometrics and Identity Intelligence. The Army will execute this funding in FY18 and deliver capabilities within 12 months.

B. Program Change Summary ($ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	0.000	7.104	0.000	-	0.000
Current President's Budget	0.000	8.854	2.537	6.036	8.573
Total Adjustments	0.000	1.750	2.537	6.036	8.573
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	1.750			
• SBIR/STTR Transfer	-	-			
• Adjustments to Budget Years	0.000	0.000	2.537	6.036	8.573

Change Summary Explanation

FY17 funding change of $1.750 million, reflected in the Request for Additional Appropriation March supplemental request, supports OSD(S&T) effort to develop a portable rapid DNA solution. This solution will meet the requirements of rapid DNA for JUONS CC-0548. United States Central Command (CENTCOM) submitted JUONS CC-0548 on 11 Dec 15 for enhanced biometric capabilities to support current operations. The Joint Requirements Oversight Council (JROC) validated 5 key requirements of JUONS CC-0548 on 3 June 2016 and identified the requirements as "key enablers" to existing JEON CCE-0008 (near Real-Time Identity Operations). The Joint Rapid Acquisition Cell (JRAC) assigned execution responsibility for the validated 5 key requirements in JUONS CC-0548 to the Army on 30 June 2016. The Army Acquisition Executive assigned OPR to Program Executive Officer for Intelligence, Electronic Warfare, and Sensors/Project Manager for DoD Biometrics on 13 September 2016.

FY18 Base funding of $2.537 million is the initial effort to transition from the current BAT-A configuration to an updated Next Generation Biometric Collection Capability (NXGBCC). The NXGBCC will support the Army Force Protection and Identity Activities. The NXGBCC will be a part of the DoD Biometric Enterprise. The NXGBCC shall collect, match, store, share, analyze, reference, and manage contextual data and biometrics. This includes iris, fingerprint, facial images, palm prints and voice on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals to inform the warfighter in a decide/act response. The NXGBCC is the successor to the Biometrics Automated Toolset-Army Program of Record capability.

FY18 OCO funding of $3.886 million supports Five Vigilant Pursuit System Sets (10 vehicles total plus equipment) are currently deployed in support of OFS (two sets) and OIR (three sets). The Vigilant Pursuit System currently consists of 2 vehicles with integrated Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages installed on MATVs. The funding supports developmental activities to create modularized, vehicle-independent and

tailorable Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages that can be installed and removed in a matter of minutes on any vehicle type to meet specific mission needs. Specific activities include hardware development for critical hardware components that cannot be commercially procured necessary to refactor the Multi-INT capability packages to work on any vehicle platform and software development necessary to replace/upgrade open source code that is no longer current/viable and is therefore more difficult and expensive to maintain or completely unusable. In addition, funding will support development efforts for modular open architectures to significantly reduce SWAP and enhance multi INT sensing, processing, collection and dissemination.

The remaining FY18 OCO funding of $2.150 million supports the development of new software code & associated testing necessary to deliver an instance of the Biometric Intelligence Information Repository (I2AR) a replacement for the Biometrics Identity Intelligence Repository (BI2R -the unique software-based analytic production system used by NGIC specifically to create the Biometric Enabled Watchlist for OFS and other worldwide missions) on the Intelligence Community Information Technology Environment (IC ITE) C2S cloud. The new, more capable software will facilitate automated information exchange with complimentary community programs resident on the IC ITE C2S cloud to support the production of a Biometrically Enabled Watchlist (BEWL) containing all available IC Biometrics and Identity Intelligence. The Army will execute this funding in FY18 and deliver capabilities within 12 months.

Exhibit R-2A, RDT&E Project Justification: FY 2018 Army			Date: May 2017
Appropriation/Budget Activity 2040 / 7	R-1 Program Element (Number/Name) PE 0307665A / *Biometrics Enabled Intelligence*	Project (Number/Name) BI7 / *BIOMETRICS ENABLED INTELLIGENCE - MIP*	

COST ($ in Millions)	Prior Years	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	FY 2019	FY 2020	FY 2021	FY 2022	Cost To Complete	Total Cost
BI7: *BIOMETRICS ENABLED INTELLIGENCE - MIP*	-	0.000	8.854	2.537	6.036	8.573	0.000	0.000	0.000	0.000	0.000	17.427
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

Product Lead Biometrics Automated Toolset-Army (BAT-A) manages two Army biometric tactical collection devices, the Biometric Automated Toolset-Army (BAT-A) Kit and BAT-A Handheld (HH). These two devices support the Army Force Protection Mission and Identity Dominance Mission. The BAT-A system is the Army's biometric tactical collection devices which collect, match, store, and share biometric and contextual information on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals. Recipients of collected information include DoD organizations, other U.S. government agencies, and Coalition Partners. The BAT-A devices are also used by non-Military Intelligence personnel (Infantry and Military Police). The capability was originally deployed as a Quick Reaction Capability (QRC) and has been deployed in a combat zone and other OCONUS contingency operations for the past decade. The current BAT-A systems will serve as the Army biometrics enduring capability through FY22. All research and development efforts are now concluded for BAT-A. PL BAT-A will continue to serve as the Office of Primary Responsibility as the BAT-A is now a Post Milestone C program of record in sustainment.

The FY18 Base funding of $2.537 million supports the program efforts to begin the transition phase from the current BAT-A POR configuration to the updated Next Generation Biometric Collection Capability (NXGBCC) to replace BAT-A. The NXGBCC will be a part of the DoD Biometric Enterprise to protect and support the warfighter and nation through global identity superiority. The NXGBCC shall collect, match, store, share, analyze, reference, and manage contextual data and biometrics. This includes iris, fingerprint, facial images, palm prints and voice on Known & Suspected Terrorists, potential adversaries, host nation personnel, and third country nationals to inform the warfighter in a decide/act response. Recipients of collected information include DoD organizations, other U.S. government agencies, and Coalition Partners.

The FY18 OCO funding provides continued support for Five Vigilant Pursuit System Sets (10 vehicles total plus equipment) are currently deployed in support of OFS and OIR. The Vigilant Pursuit System currently consists of 2 vehicles with integrated Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages installed on MATVs.

FY18 OCO funding of $3.886 million supports developmental activities to create modularized, vehicle-independent and tailorable Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages that can be installed and removed in a matter of minutes on any vehicle type to meet specific mission needs. Specific activities include hardware development for critical hardware components that cannot be commercially procured necessary to refactor the Multi-INT capability packages to work on any vehicle platform and software development necessary to replace/upgrade open source code that is no longer current/viable and is therefore more difficult and expensive to maintain or completely unusable.

Lastly for FY18, the OCO funding of $2.150 million supports the development of new software code & associated testing necessary to deliver an instance of the Biometric Intelligence Information Repository (I2AR) a replacement for the Biometrics Identity Intelligence Repository (BI2R -the unique software-based analytic

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production system used by NGIC specifically to create the Biometric Enabled Watchlist for OFS and other worldwide missions) on the Intelligence Community Information Technology Environment (IC ITE) C2S cloud. The new, more capable software will facilitate automated information exchange with complimentary community programs resident on the IC ITE C2S cloud to support the production of a Biometrically Enabled Watchlist (BEWL) containing all available IC Biometrics and Identity Intelligence. The Army will execute this funding in FY18 and deliver capabilities within 12 months.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Title: Army G2 Projects	-	7.104	0.000	6.036	6.036
Description: Army G2 supports various development of intelligence capabilities currently used to support Operation Freedoms Sentinel (OFS) and Operation Inherent Resolve (OIR) including Vigilant Pursuit Systems, the Biometrics Intelligence Information Repository, and the Voice Identity Biometrics Exploitation System (VIBES) Quick Reaction Capability. ***FY 2017 Plans:*** blank ***FY 2018 Base Plans:*** N/A ***FY 2018 OCO Plans:*** Five Vigilant Pursuit System Sets (10 vehicles total plus equipment) are currently deployed in support of OFS and OIR. The Vigilant Pursuit System currently consists of 2 vehicles with integrated Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages installed on MATVs. FY18 OCO funding of $3.886 million provides for continued developmental activities to create modularized, vehicle-independent and tailorable Multi-INT Collection, Processing, Exploitation, and Dissemination capability packages that can be installed and removed in a matter of minutes on any vehicle type to meet specific mission needs. Specific activities include hardware development for critical hardware components that cannot be commercially procured necessary to refactor the Multi-INT capability packages to work on any vehicle platform and software development necessary to replace/upgrade open source code that is no longer current/viable and is therefore more difficult and expensive to maintain or completely unusable. FY2018 funding of $2.150 million will be applied to the development of new software code & associated testing necessary to deliver an instance of the Biometric Intelligence Information Repository (I2AR) a replacement for the Biometrics Identity Intelligence Repository (BI2R -the unique software-based analytic production system used by NGIC specifically to create the Biometric Enabled Watchlist for OFS and other worldwide missions) on the Intelligence Community Information Technology Environment (IC ITE) C2S cloud. The new, more capable					

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B. Accomplishments/Planned Programs ($ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
software will facilitate automated information exchange with complimentary community programs resident on the IC ITE C2S cloud to support the production of a Biometrically Enabled Watchlist (BEWL) containing all available IC Biometrics and Identity Intelligence. The Army will execute this funding in FY18 and deliver capabilities within 12 months.					
Title: Next Generation Biometric Collection Capability (NXGBCC) ***Description:*** The Next Generation Biometric Collection Capability (NXGBCC) will be the successor program to the current BAT-A Program of Record. ***FY 2018 Base Plans:*** The FY18 Base funding of $2.537 million will support program planning and pre-acquisition efforts for the Next Generation Biometric Collection Capability (NXGBCC).	-	-	2.537	-	2.537
Title: JUONS CC-0548 ***Description:*** OSD(S&T) effort to develop a portable rapid DNA solution to meet the requirements for JUONS CC-0548. ***FY 2017 Plans:*** Current contractor will further develop and refine three portable DNA prototype solutions for JUONS CC-0548. The contractor is tasked to reduce the size and weight of the DNA prototype devices. Also, the contractor will begin initial operational fielding and test simulation for an operational or military utility assessment.	-	1.750	-	-	-
Accomplishments/Planned Programs Subtotals	-	8.854	2.537	6.036	8.573

C. Other Program Funding Summary ($ in Millions)

N/A

Remarks

D. Acquisition Strategy

The FY18 RDT&E Base acquisition strategy will solicit a contractor and will award a Technical Services contract. The objective of this task is to obtain the data, analysis, and trade-off methodology for the Materiel Developer to use in order to meet the NXGBCC requirement via a commercial-off-the-shelf biometric collection and communication capability that is cost effective and fielded in time to replace the BAT-A system. The primary activity that will be used to gather the data, analyze the data, and determine a trade-off methodology will be a technical study of commercially available biometrics collection and communications capabilities, using a functional and technical decomposition of the NXGBCC Capabilities Production Document (CPD) as the criteria set. The PMO will work with the TRADOC Capability Manager to

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analyze the NXGBCC Capability Production Document (CPD) and determine the appropriate level of functional and technical requirements decomposition. The current acquisition strategy is to award the Technical Services contract during 2QFY18.

FY17 RDT&E OCO acquisition strategy reflected from the supplemental request is for the current contractor to further develop and refine three portable DNA prototype solutions for JUONS CC-0548. The contractor will be tasked to reduce the size and weight of the DNA prototype devices. Also, funds will enable the contractor begin initial operational fielding and test simulation for an operational or military utility assessment. The planned delivery date of the prototypes is during 2QFY18.

The FY18 RDT&E OCO acquisition strategy will continue to solicit a contractor to continue to develop activities for the Army Requirements Oversight Council (AROC) approved Vigilant Pursuit Quick Reaction Capability (QRC) to modularize the Multi-INT collection, processing, exploitation, and dissemination hardware and software to enhance usability from the Soldier perspective. A contractor will also be selected to finish developing and testing the I2AR capability to install and configure the capability on the IC ITE Cloud on the JWICS and SIPRNet domains.

E. Performance Metrics

N/A