Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Date: February 2019

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced

PE 0208099F I Unified Platform (UP)

Component Development & Prototypes (ACD&P)

•	, ,	,										
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
Total Program Element	-	0.000	29.800	10.000	0.000	10.000	6.000	0.000	0.000	0.000	0.000	45.800
646504: AF Prototyping	-	0.000	19.800	5.000	0.000	5.000	3.000	0.000	0.000	0.000	0.000	27.800
646505: USCYBERCOM Prototyping	-	0.000	10.000	5.000	0.000	5.000	3.000	0.000	0.000	0.000	0.000	18.000

A. Mission Description and Budget Item Justification

Unified Platform provides the Cyber Mission Forces, U.S. Cyber Command (USCYBERCOM), AF Major Commands (MAJCOM), and Service cyber components a Joint cyber operations infrastructure enabling full spectrum cyberspace operations at the operational through tactical levels of warfare. The DoD, AF, and the Cyber Mission Force require an interconnected and interoperable cyber infrastructure to conduct integrated planning and execution of cyberspace operations. Unified Platform delivers this capability through the integration of disparate, Service-specific platforms and systems, infrastructure, mission capabilities, data analytics, and programs to build interoperable and scalable network for cyber capabilities. A common, Unified Platform allows the DoD to achieve and maintain decision and operational superiority, the key to successful cyber operations within the highly dynamic cyberspace domain.

Unified Platform rapid prototyping efforts integrate Service-specific cyber capabilities and explore novel cyber technologies culminating in an initial Unified Platform capability (e.g. minimum viable product). The rapidly evolving cyberspace domain requires flexibility in which rapid prototyping activities inform the initial Unified Platform capability baseline through the early stages of technology maturation and delivery. Rapid prototyping efforts are executed in an operational development environment to expedite development and evaluation of cyber capabilities within relevant warfighter timelines and are transitioned to Foundational Efforts (BA 7, PE 0208099F Unified Platform, 672281 Foundational Efforts) once included in the Unified Platform baseline.

The Secretary of the Air Force leads the Unified Platform effort as Executive Agent on behalf of the Department of Defense. Unified Platform directly supports the Joint Network Attack Initial Capabilities Document (ICD), the National Military Strategy for Cyberspace Operations (NMS-CO), USCYBERCOM operational directives, the latest MAJCOM Offensive Cyberspace Operations System Flight Plan, and other formal requirements documents.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Unified Platform weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605833F, and 0605833F.

As directed in the FY 2018 NDAA, Sec 825, amendment to PL 114-92 FY 2016 NDAA, Sec 828 Penalty for Cost Overruns, the FY 2018 Air Force penalty total is \$14.373M. The calculated percentage reduction to each research, development, test and evaluation and procurement account will be allocated proportionally from all programs, projects, or activities under such account.

PE 0208099F: Unified Platform (UP)

Air Force

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Date: February 2019 Exhibit R-2, RDT&E Budget Item Justification: PB 2020 Air Force

Appropriation/Budget Activity

R-1 Program Element (Number/Name)

3600: Research, Development, Test & Evaluation, Air Force I BA 4: Advanced PE 0208099F I Unified Platform (UP) Component Development & Prototypes (ACD&P)

This effort is in Budget Activity 4, Advanced Component Development and Prototypes (ACD&P), because efforts are necessary to evaluate integrated technologies, representative modes or prototype systems in a high fidelity and realistic operating environment.

B. Program Change Summary (\$ in Millions)	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total
Previous President's Budget	0.000	29.800	10.000	0.000	10.000
Current President's Budget	0.000	29.800	10.000	0.000	10.000
Total Adjustments	0.000	0.000	0.000	0.000	0.000
 Congressional General Reductions 	0.000	0.000			
 Congressional Directed Reductions 	0.000	0.000			
 Congressional Rescissions 	0.000	0.000			
 Congressional Adds 	0.000	0.000			
 Congressional Directed Transfers 	0.000	0.000			
Reprogrammings	0.000	0.000			
SBIR/STTR Transfer	0.000	0.000			
Other Adjustments	0.000	0.000	0.000	0.000	0.000

PE 0208099F: Unified Platform (UP)

Exhibit R-2A, RDT&E Project Ju	ustification	: PB 2020 A	ir Force							Date: Febr	ruary 2019	
Appropriation/Budget Activity 3600 / 4					_		t (Number/ d Platform (•	Project (N 646504 / A		•	
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
646504: AF Prototyping	-	0.000	19.800	5.000	0.000	5.000	3.000	0.000	0.000	0.000	0.000	27.800
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

The rapidly evolving cyberspace domain demands highly flexible requirements, acquisition activities, and operations to respond to emerging opportunities or mitigate adversary actions. Salient to this mission area, rapid prototyping activities provide the structure to rapidly develop, evaluate, and integrate new cyber capabilities and inform the initial Unified Platform capability baseline during the early stages of technology maturation and delivery. Air Force Prototyping efforts support this need through rapid and exploratory research, prototype development, risk reduction, testing, and integration of cyber capabilities contributing to early operational development of the Unified Platform capability baseline. The USAF in conjunction with the Services and National Agencies execute operationally focused research and development and rapid prototyping to explore and determine validity of potential infrastructure, architectures, and capabilities/tools to support Cyber Mission Forces. These rapid prototyping efforts will be tailored for near-immediate integration into the Unified Platform baseline (BA 7, PE 0208099F Unified Platform, BPAC 672281 Foundational Efforts) for delivery to cyber warfighters.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: AF Prototyping	0.000	19.800	5.000
Description: AF prototyping efforts will initially develop the UP Minimum Viable Product (MVP) baseline from existing "best of breed" systems, completed prototyping efforts, existing Service-developed solutions, joint user-input, and other sources			
FY 2019 Plans: - Develop incremental operational capability addressing the highest priority user requirements			
- Deliver prototyping efforts to inform Unified Platform capability baseline			
- Some aspects of the effort are classified and will be provided on a need-to-know basis.			
FY 2020 Plans: - Will continue to develop incremental operational capability addressing highest priority user requirements.			
- Some aspects of the effort are classified and will be provided on a need-to-know basis.			
FY 2019 to FY 2020 Increase/Decrease Statement: Funding decreased due to integration of AF prototyping efforts into Unified Platform baseline and reduction of rapid prototyping activity			
Accomplishments/Planned Programs Subtotals	0.000	19.800	5.000

PE 0208099F: Unified Platform (UP)

Air Force

Exhibit R-2A, RDT&E Project Just	ification: PB	2020 Air Fo	rce						Date: Fel	oruary 2019	
Appropriation/Budget Activity 3600 / 4					•	ment (Numb nified Platforr	•	, ,	Number/Na AF Prototyp	,	
C. Other Program Funding Summa	ary (\$ in Milli	ions)									
			FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	Base	OCO	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total Cost
• RDTE 07 0208099F: Unified Platform (UP)	-	26.559	84.702	-	84.702	98.701	114.713	114.721	125.436	Continuing	Continuing
• OPAF 03 835080: <i>AFNET</i>	-	-	4.963	-	4.963	4.964	4.962	4.961	5.050	Continuing	Continuing

Remarks

D. Acquisition Strategy

Unified Platform represents a flexible, interoperable, and scalable warfighter capability to be employed by the Army, Navy, Marine Corps, and Air Force in conjunction with U.S. Cyber Command (USCYBERCOM). In order to match the speed of need of the highly dynamic cyberspace domain, the Service-agnostic Unified Platform capability implements a scaled agile development framework (SAFe) to facilitate the rapid development, integration, and fielding of capabilities to remain responsive to evolving warfighter requirements. The Unified Platform program executes the agile development requirements provided by the Army, Navy, Marine Corps, Air Force, and USCYBERCOM stakeholders in accordance with the prioritization provided by the multi-Service Unified Platform governance structure.

The initial Unified Platform capability will deliver a minimum viable product (MVP) for immediate deployment and operational use by the Cyber Mission Force. Subsequent build iterations will continue to deliver enhanced capabilities, incrementally building the Unified Platform capability to match warfighter needs and requirements to achieve cyberspace dominance. Early development of the Unified Platform baseline capability relies on extensive rapid prototyping efforts to analyze integration constraints and opportunities of Service-specific cyber capabilities to realize the Unified Platform MVP and inform the future Unified Platform baseline (BA 4, PE 0208099F Unified Platform, 646504 AF Prototyping and 646505 USCYBERCOM Prototyping). In parallel, an enduring foundational Unified Platform thrust area supports the development and maturation of Unified Platform baseline, integrates successful prototyping activities, and implements an agile development/security/ operations (DevSecOps) construct to rapidly evolve and enhance the Unified Platform capability to match warfighter requirements (BA 7, PE 0208099F Unified Platform, 672281 Foundational Efforts).

The Unified Platform program office utilizes Concept, Development, Risk management, Production, or Deployment Plans as part of a streamlined approach to agile acquisition planning. All plans contain sufficient information to inform acquisition decisions (i.e., authorities to proceed), within the agile framework, to determine readiness to enter into the applicable phase of the acquisition process. Unified Platform will utilize both new and existing contractual vehicles, such as Government-Wide Acquisition Contract (GWAC) vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules and a new Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that can meet many requirements related to Unified Platform. These multiple-award contractual vehicles have already met the statutory requirements of the Competition in Contracting Act (CICA); they require a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation (FAR) 16.505, unless an exception to fair opportunity applies.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Air Force performance goals and most importantly, how they contribute to our mission.

PE 0208099F: Unified Platform (UP)

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EXHIBIT R-3, RD I &E	Project C	ost Analysis: PB 2	2020 Air F	orce								Date:	February	2019	
Appropriation/Budg 3600 / 4	et Activity	1					ogram Ele 8099F / <i>U</i>	•		•		(Number			
Product Developme	ent (\$ in M	illions)		FY 2	2018	FY 2	2019	FY 2 Ba		FY 2		FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Agile Capability Prototyping	Various	Various : Various	-	-		19.000	Oct 2018	4.700	Oct 2019	-		4.700	Continuing	Continuing	4.700
		Subtotal	-	-		19.000		4.700		-		4.700	Continuing	Continuing	N/A
Management Servic	es (\$ in M	illions)		FY 2	2018	FY 2	2019	FY 2 Ba		FY 2		FY 2020 Total			
Management Servic	Contract Method & Type	Performing Activity & Location	Prior Years	FY 2	2018 Award Date	FY 2	2019 Award Date						Cost To	Total Cost	Target Value of Contract
	Contract Method	Performing	-		Award		Award	Ba Cost	Award Date	OC	O Award	Total Cost	Complete	1	Value of Contract
Cost Category Item	Contract Method & Type	Performing Activity & Location	-		Award	Cost 0.600	Award Date	Cost 0.200	Award Date	Cost	O Award	Cost 0.200	Complete Continuing	Cost	Value of Contract 0.200
Cost Category Item Systems Engineering	Contract Method & Type Various	Performing Activity & Location Various : Various	-		Award	Cost 0.600	Award Date Dec 2018	Cost 0.200	Award Date Dec 2019	Cost -	O Award	Total Cost 0.200 0.100	Complete Continuing Continuing	Cost Continuing	Value of Contract 0.200 0.100
Cost Category Item Systems Engineering	Contract Method & Type Various	Performing Activity & Location Various : Various Various : Various	Years -	Cost -	Award Date	Cost 0.600 0.200	Award Date Dec 2018 Dec 2018	Cost 0.200 0.100	Award Date Dec 2019 Dec 2019	Cost	Award Date	Total Cost 0.200 0.100	Complete Continuing Continuing	Cost Continuing Continuing Continuing Total	Value of Contract 0.200 0.100

Remarks

PE 0208099F: *Unified Platform (UP)* Air Force

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Exhibit R-4, RDT&E Schedule Profile: Pl	3 2020 Air F	orc	е																			Da	ate: I	Eebr	rua	ry 2	2019)	
Appropriation/Budget Activity 600 / 4 R-1 Program Element (Number/Name) PE 0208099F / Unified Platform (UP) 64650											•				•														
		F۱	Y 201	18		FY	′ 2019	9		FY 2	020			FY 2	2021			FY	202	2	Т	F۱	Y 202	23			FY 2	202	4
	1		2 3	_	. 1	1 2		4	1	2	3	4	1	2		4	1	2	3	4	1		2 3		4	1	2	3	_
AF Prototyping				,	,	,		,											,										
Agile Capability Prototyping																									-	-		-	_

PE 0208099F: Unified Platform (UP) Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force			Date: February 2019
11	,	, ,	umber/Name)
3600 / 4	PE 0208099F I Unified Platform (UP)	646504 <i>I A</i>	F Prototyping

Schedule Details

	St	art	E	nd
Events by Sub Project	Quarter	Year	Quarter	Year
AF Prototyping				
Agile Capability Prototyping	1	2019	4	2021

PE 0208099F: Unified Platform (UP)

Exhibit R-2A, RDT&E Project Ju	stification	: PB 2020 A	ir Force							Date: Febr	ruary 2019	
Appropriation/Budget Activity 3600 / 4							t (Number l d Platform (l	,	Project (N 646505 / U		ne) OM Prototyp	ping
COST (\$ in Millions)	Prior Years	FY 2018	FY 2019	FY 2020 Base	FY 2020 OCO	FY 2020 Total	FY 2021	FY 2022	FY 2023	FY 2024	Cost To Complete	Total Cost
646505: USCYBERCOM Prototyping	-	0.000	10.000	5.000	0.000	5.000	3.000	0.000	0.000	0.000	0.000	18.000
Quantity of RDT&E Articles	-	-	-	-	-	-	-	-	-	-		

A. Mission Description and Budget Item Justification

U.S. Cyber Command's (USCYBERCOM) mission is to deter or defeat strategic cyber threats to US interests and infrastructure, provide mission assurance for the operations and defense of the Department of Defense information environment, and support the achievement of Combatant Commander and Joint Force Commander Objectives.

The rapidly evolving cyberspace domain demands highly flexible requirements, acquisition activities, and operations to respond to emerging opportunities or mitigate adversary actions. Salient to this mission area, rapid prototyping activities provide the structure to rapidly develop, evaluate, and integrate new cyber capabilities and inform the initial Unified Platform capability baseline during the early stages of technology maturation and delivery. USCYBERCOM Prototyping efforts support this need through the focus on the rapid and exploratory research, prototype development, risk reduction, testing, and integration of cyber capabilities contributing to early operational development of the Unified Platform capability baseline. USCYBERCOM in conjunction with the Services and National Agencies execute operationally focused research and development and rapid prototyping to explore and determine validity of potential infrastructure, architectures, and capabilities/tools to support Cyber Mission Forces. These rapid prototyping efforts will be tailored for near-immediate integration into the Unified Platform baseline (BA 7, PE 0208099F Unified Platform, BPAC 672281F Foundational Efforts) for delivery to cyber warfighters.

This program element may include necessary civilian pay expenses required to manage, execute, and deliver Unified Platform weapon system capability. The use of such program funds would be in addition to the civilian pay expenses budgeted in program elements 0605826F, 0605827F, 0605828F, 0605829F, 0605830F, 0605831F, 0605832F, 0605833F.

B. Accomplishments/Planned Programs (\$ in Millions)	FY 2018	FY 2019	FY 2020
Title: USCYBERCOM Prototyping	0.000	10.000	5.000
Description: Funding supports USCYBERCOM prototyping efforts associated with the research, development, and integration of cyber technologies supporting the Unified Platform program.			
FY 2019 Plans: - Deliver prototyping efforts in support of Unified Platform program.			
- The origin, details, and specific aspects of these efforts are classified and will be provided on a need-to-know basis.			
FY 2020 Plans: - Will continue to conduct prototyping efforts in support of Unified Platform program.			

PE 0208099F: Unified Platform (UP)

Air Force

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Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force			Date: F	ebruary 2019)		
Appropriation/Budget Activity 3600 / 4	` ` '	•	•	umber/Name) SCYBERCOM Prototyping			
B. Accomplishments/Planned Programs (\$ in Millions)			FY 2018	FY 2019	FY 2020		
- The origin, details, and specific aspects of these efforts are classified a FY 2019 to FY 2020 Increase/Decrease Statement: Funding decreased due to integration of USCYBERCOM prototyping effortotyping activity	·	id					
	Accomplishments/Planned Programs Subto	tals	0.000	10.000	5.000		
C. Other Program Funding Summary (\$ in Millions)							

			FY 2020	FY 2020	FY 2020					Cost To	
<u>Line Item</u>	FY 2018	FY 2019	Base	OCO	<u>Total</u>	FY 2021	FY 2022	FY 2023	FY 2024	Complete	Total Cost
RDTE 07 0208099F:	-	26.559	84.709	-	84.709	98.701	114.713	114.721	125.436	Continuing	Continuing
Unified Platform (UP)											
• OPAF 03 835080: <i>AFNET</i>	-	-	4.963	-	4.963	4.964	4.962	4.961	5.050	Continuing	Continuing

Remarks

D. Acquisition Strategy

Unified Platform represents a flexible, interoperable, and scalable warfighter capability to be employed by the Army, Navy, Marine Corps, and Air Force in conjunction with U.S. Cyber Command (USCYBERCOM). In order to match the speed of need of the highly dynamic cyberspace domain, the Service-agnostic Unified Platform capability implements a scaled agile development framework (SAFe) to facilitate the rapid development, integration, and fielding of capabilities to remain responsive to evolving warfighter requirements. The Unified Platform program executes the agile development requirements provided by the Army, Navy, Marine Corps, Air Force, and USCYBERCOM stakeholders in accordance with the prioritization provided by the multi-Service Unified Platform governance structure.

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The Unified Platform program office utilizes Concept, Development, Risk management, Production, or Deployment Plans as part of a streamlined approach to agile acquisition planning. All plans contain sufficient information to inform acquisition decisions (i.e., authorities to proceed), within the agile framework, to determine readiness to enter into the applicable phase of the acquisition process. Unified Platform will utilize both new and existing contractual vehicles, such as Government-

PE 0208099F: Unified Platform (UP)

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Air Force

Exhibit R-2A, RDT&E Project Justification: PB 2020 Air Force	Date: February 2019	
Appropriation/Budget Activity	R-1 Program Element (Number/Name)	Project (Number/Name)
3600 / 4	PE 0208099F I Unified Platform (UP)	646505 I USCYBERCOM Prototyping

Wide Acquisition Contract (GWAC) vehicles (Alliant, Encore II, Solutions for Enterprise-Wide Procurement IV (SEWP IV), and General Services Administration (GSA) Federal Supply Schedules and a new Cyber Indefinite Delivery Indefinite Quantity (IDIQ) contract. The use of multiple-award contractual vehicles will provide a wide range of commercially-available products and services that can meet many requirements related to Unified Platform. These multiple-award contractual vehicles have already met the statutory requirements of the Competition in Contracting Act (CICA); they require a fair opportunity to all contract holders, in accordance with Federal Acquisition Regulation (FAR) 16.505, unless an exception to fair opportunity applies.

E. Performance Metrics

Please refer to the Performance Base Budget Overview Book for information on how Air Force resources are applied and how those resources are contributing to Ai
Force performance goals and most importantly, how they contribute to our mission.

PE 0208099F: Unified Platform (UP)

Exhibit R-3, RDT&E	Project C	ost Analysis: PB 2	2020 Air F	orce			-					Date:	February	2019	
Appropriation/Budg 3600 / 4	et Activity	1			ogram Ele 8099F / U	•		Number/Name) USCYBERCOM Prototyping							
Product Developme	ent (\$ in M	illions)		FY 2018			2019		2020 ase		2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Agile Capability Prototyping	Various	Multiple Agencies : Various	-	-		9.600	Oct 2018	4.600	Oct 2019	-		4.600	Continuing	Continuing	4.600
		Subtotal	-	-		9.600		4.600		-		4.600	Continuing	Continuing	N/A
Management Service	es (\$ in M	illions)		FY:	2018	FY 2	2019		2020 ase		2020 CO	FY 2020 Total			
Cost Category Item	Contract Method & Type	Performing Activity & Location	Prior Years	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Award Date	Cost	Cost To	Total Cost	Target Value of Contract
Systems Engineering	Various	Various : Various	-	-		0.300	Dec 2018	0.300	Dec 2019	-		0.300	Continuing	Continuing	0.300
Acquisition Support	Various	Various : Various	-	-		0.100	Dec 2018	0.100	Dec 2019	-		0.100	Continuing	Continuing	0.100
		Subtotal	-	-		0.400		0.400		-		0.400	Continuing	Continuing	N/A
			Prior Years	FY:	2018	FY 2019		FY 2020 Base			2020 CO	FY 2020 Total	Cost To	Total Cost	Target Value of Contract

Remarks

PE 0208099F: Unified Platform (UP)

Air Force

Exhibit R-4, RDT&E Schedule Profile: PB	2020 Air F	orc	е																			Dat	te: F	ebru	ary	2019	9		
Appropriation/Budget Activity 3600 / 4							, , , , , , , , , , , , , , , , , , , ,													•	(Number/Name) I USCYBERCOM Prototyping								
		FY	′ 201	8		FY :	2019)		FY 2	2020)		FY 2	2021			FY	2022	2		FY	202	3		FY	202	4	
	1	2	2 3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
USCYBERCOM Prototyping																						,	,		,			,	
Agile Capability Prototyping																													

PE 0208099F: Unified Platform (UP)

Air Force

Exhibit R-4A, RDT&E Schedule Details: PB 2020 Air Force	Date: February 2019				
Appropriation/Budget Activity	, ,	, ,	lumber/Name)		
3600 / 4	PE 0208099F I Unified Platform (UP)	646505 / L	JSCYBERCOM Prototyping		

Schedule Details

	St	art	End			
Events by Sub Project	Quarter	Year	Quarter	Year		
USCYBERCOM Prototyping						
Agile Capability Prototyping	1	2019	4	2021		

PE 0208099F: Unified Platform (UP)

Air Force