

# UNCLASSIFIED

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development					R-1 Program Element (Number/Name) PE 0303138N I Consolidated Afloat Network Ent Services(CANES)							
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	158.117	21.522	23.541	24.271	-	24.271	22.410	23.085	23.574	24.048	280.704	601.272
9C87: CANES Integration	158.117	21.522	23.541	24.271	-	24.271	22.410	23.085	23.574	24.048	280.704	601.272
Program MDAP/MAIS Code: Project MDAP/MAIS Code(s): M417												
A. Mission Description and Budget Item Justification												
<p>Consolidated Afloat Networks and Enterprise Services (CANES) is the Navy's Program of Record (POR) to replace and modernize existing afloat networks with the necessary hardware, software and enterprise services infrastructure to enable information warfare from and within the tactical domain. CANES provides complete infrastructure inclusive of hardware, software, processing, storage and end user devices for the Unclassified, Coalition, Secret and Sensitive Compartmented Information (SCI) enclaves for all basic network services (email, web, chat, collaboration) to a wide variety of Navy surface combatants, submarines and maritime operations centers. Hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through the Application Integration process, which is used to evaluate and validate compatibility between CANES and the Navy-validated applications, systems and services. Specific programs, such as Distributed Common Ground System - Navy (DCGS-N), Global Command and Control System - Maritime (GCCS-M), Naval Tactical Command Support System (NTCSS), and Undersea Warfare Decision Support System (USW-DSS), are dependent on CANES to field, host, and sustain their capability because they no longer provide their own hardware. In addition, CANES requires that Automated Digital Network System (ADNS) field prior to or concurrently with CANES due to the architectural reliance between the two programs.</p> <p>CANES is programmed to develop regular technical updates to its hardware and software baselines to ensure that no cybersecurity vulnerabilities exist due to hardware and software obsolescence. CANES is based on the overarching concept of reducing the number of afloat networks and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting, and test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure.</p> <p>In FY 2018, CANES RDT&amp;E investment will complete TI 2 hardware and software baseline development and initiate development of TI 3 software baseline including E2C laboratory engineering efforts. Perform systems engineering efforts for TI 3 to complete functional baselines and update technical data packages.</p>												

**UNCLASSIFIED**

Exhibit R-2, RDT&E Budget Item Justification: FY 2018 Navy				Date: May 2017	
Appropriation/Budget Activity		R-1 Program Element (Number/Name)			
1319: Research, Development, Test & Evaluation, Navy I BA 7: Operational Systems Development		PE 0303138N I Consolidated Afloat Network Ent Services(CANES)			
B. Program Change Summary (\$ in Millions)	FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total
Previous President's Budget	21.667	23.541	23.922	-	23.922
Current President's Budget	21.522	23.541	24.271	-	24.271
Total Adjustments	-0.145	0.000	0.349	-	0.349
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.145	0.000			
• Program Adjustments	0.000	0.000	0.000	-	0.000
• Rate/Misc Adjustments	0.000	0.000	0.349	-	0.349
<b>Change Summary Explanation</b>					
Technical: N/A					
Funding: N/A					
Schedule: Operational commitments for the CANES Force Level Follow-On Test and Evaluation (FOT&E) test platform caused the Force Level DT and Force Level FOT&E test events to be re-phased. Development Testing for submarines shifted to Q1FY19 due to submarine test platform operational commitments. Full Deployment has been re-phased to align with program's Full Deployment Decision (FDD), which was updated to accommodate acquisition documentation requirements. FDD was achieved in 1QFY16.					

**UNCLASSIFIED**

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy										Date: May 2017		
Appropriation/Budget Activity 1319 / 7					R-1 Program Element (Number/Name) PE 0303138N / Consolidated Afloat Network Ent Services(CANES)				Project (Number/Name) 9C87 / CANES Integration			
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
9C87: CANES Integration	158.117	21.522	23.541	24.271	-	24.271	22.410	23.085	23.574	24.048	280.704	601.272
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		
Project MDAP/MAIS Code: M417												
A. Mission Description and Budget Item Justification												
Consolidated Afloat Networks and Enterprise Services (CANES) is the Navy's Program of Record (POR) to replace and modernize existing afloat networks with the necessary hardware, software and enterprise services infrastructure to enable information warfare from and within the tactical domain. CANES provides complete infrastructure inclusive of hardware, software, processing, storage and end user devices for the Unclassified, Coalition, Secret and Sensitive Compartmented Information (SCI) enclaves for all basic network services (email, web, chat, collaboration) to a wide variety of Navy surface combatants, submarines and maritime operations centers. Hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through the Application Integration process, which is used to evaluate and validate compatibility between CANES and the Navy-validated applications, systems and services. Specific programs, such as Distributed Common Ground System - Navy (DCGS-N), Global Command and Control System - Maritime (GCCS-M), Naval Tactical Command Support System (NTCSS), and Undersea Warfare Decision Support System (USW-DSS), are dependent on CANES to field, host, and sustain their capability because they no longer provide their own hardware. In addition, CANES requires that Automated Digital Network System (ADNS) field prior to or concurrently with CANES due to the architectural reliance between the two programs.												
CANES is programmed to develop regular technical updates to its hardware and software baselines to ensure that no cybersecurity vulnerabilities exist due to hardware and software obsolescence. CANES is based on the overarching concept of reducing the number of afloat networks and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting, and test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure.												
B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)							FY 2016	FY 2017	FY 2018 Base	FY 2018 OCO	FY 2018 Total	
Title: CANES Integration							21.522	23.541	24.271	0.000	24.271	
Articles:							-	-	-	-	-	
FY 2016 Accomplishments:												
Achieved Full Deployment Decision (FDD). Completed Technical Insertion (TI) software baseline development and initiated development for TI 2 hardware and software baseline including E2C laboratory engineering efforts. Performed systems engineering efforts to complete functional baselines and updates to technical data packages. Continued Follow-On Test & Evaluation (FOT&E) in support of force level testing.												
FY 2017 Plans:												

# UNCLASSIFIED

Exhibit R-2A, RDT&E Project Justification: FY 2018 Navy						Date: May 2017					
Appropriation/Budget Activity 1319 / 7			R-1 Program Element (Number/Name) PE 0303138N / Consolidated Afloat Network Ent Services(CANES)			Project (Number/Name) 9C87 / CANES Integration					
<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>						<b>FY 2016</b>	<b>FY 2017</b>	<b>FY 2018 Base</b>	<b>FY 2018 OCO</b>	<b>FY 2018 Total</b>	
Continue TI 2 hardware and software baseline testing, including E2C laboratory engineering efforts. Perform systems engineering efforts to complete functional baselines and update technical data packages. Complete FOT&E in support of force level testing. Perform Development Testing (DT) Assist for TI 2 hardware and software development.  <b>FY 2018 Base Plans:</b> Complete TI 2 hardware and software baseline development and initiate development of TI 3 software baseline including E2C laboratory engineering efforts. Perform systems engineering efforts for TI 3 to complete functional baselines and update technical data packages.  <b>FY 2018 OCO Plans:</b> N/A											
Accomplishments/Planned Programs Subtotals						21.522	23.541	24.271	0.000	24.271	
<b>C. Other Program Funding Summary (\$ in Millions)</b>											
Line Item	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
• OPN/2915: CANES	274.641	212.030	322.754	-	322.754	419.686	406.255	364.389	410.379	2,472.031	5,951.156
• OPN/2925: CANES Intell	28.695	36.013	48.028	-	48.028	59.321	56.636	49.192	50.176	446.377	1,029.470
<b>Remarks</b>											
<b>D. Acquisition Strategy</b> CANES is an ACAT IAC Major Automated Information System (MAIS) program. The program office employed a multiple-phase, multiple-award down-select contract strategy to reduce program risks and maintain competition in both design development and limited production during contract performance. Milestone C was achieved in 1QFY13 and Full Deployment Decision (FDD) was achieved in 1QFY16. In 2QFY15, a separate full and open indefinite delivery indefinite quantity (IDIQ) multiple award contract (MAC) production contract was awarded to support future production. CANES is programmed to develop regular technical updates to its hardware and software baselines to ensure that no cybersecurity vulnerabilities exist due to hardware and software obsolescence.											
<b>E. Performance Metrics</b> Early RDT&E investment and sustainment of dual design contractors through the development phase reduced Total Ownership Cost (TOC) from Milestone B to Milestone C. Cost avoidance throughout the life of the program is based on 1) reducing the number of networks through the use of mature, certified, cross domain technologies; 2) reducing the infrastructure footprint and associated costs for hardware afloat; and 3) providing increased capability to meet current and projected war fighter requirements.											

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0303138N / Consolidated Afloat Network Ent Services(CANES)				Project (Number/Name) 9C87 / CANES Integration					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Prior Year Product Development	Various	Various : Various	52.910	0.000		0.000		0.000		-		0.000	0.000	52.910	22.329
Primary Hardware Development	WR	SSC : San Diego, CA and Charleston, SC	38.562	7.507	Nov 2015	8.617	Jan 2017	9.120	Nov 2017	-		9.120	192.514	256.320	209.438
Primary Hardware Development	C/CPFF	AUSGAR : San Diego, CA	0.182	0.240	Mar 2016	0.000		0.000		-		0.000	0.000	0.422	-
Primary Hardware Development	C/CPFF	ImagineOne : Colonial Beach, VA	0.432	0.286	Feb 2016	0.000		0.000		-		0.000	0.000	0.718	-
Primary Hardware Development	C/CPFF	Navy Systems Management Agency (NSMA) : Washington DC	0.000	0.660	Apr 2016	0.000		0.000		-		0.000	0.000	0.660	-
Primary Hardware Development	C/CPFF	Client Solution Architects (CSA) : San Diego, CA	0.000	0.150	Apr 2016	0.000		0.000		-		0.000	0.000	0.150	-
Primary Software Development	C/CPFF	AUSGAR : San Diego, CA	0.000	0.224	Mar 2016	0.000		0.000		-		0.000	0.000	0.224	-
Primary Software Development	WR	SSC : San Diego, CA and Charleston, SC	20.347	6.569	Nov 2015	7.936	Nov 2016	9.821	Nov 2017	-		9.821	52.439	97.112	48.574
Primary Software Development	C/CPFF	Carahsoft : Reston, VA	0.000	0.185	Apr 2016	0.000		0.000		-		0.000	0.000	0.185	-
Primary Software Development	C/CPFF	TBD : TBD	0.000	0.000		0.397	Apr 2017	0.390	Dec 2017	-		0.390	0.000	0.787	-
Systems Engineering	C/CPFF	Systems Research and Applications (SRA) : San Diego, CA	0.000	0.116	Mar 2016	0.000		0.000		-		0.000	0.000	0.116	-
Systems Engineering	C/CPFF	Innovative Defense Technologies (IDT) : Arlington, VA	0.000	0.240	Apr 2016	0.668	Jun 2017	0.000		-		0.000	0.000	0.908	-
Systems Engineering	C/CPFF	Booz Allen Hamilton (BAH) : San Diego, CA	1.393	0.220	Jul 2016	0.657	Dec 2016	0.670	Dec 2017	-		0.670	0.000	2.940	0.690

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0303138N / Consolidated Afloat Network Ent Services(CANES)				Project (Number/Name) 9C87 / CANES Integration					
Product Development (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Systems Engineering	C/CPFF	Science Applications International Corp. (SAIC) : San Diego, CA	0.277	0.169	Mar 2016	0.000		0.000		-		0.000	0.000	0.446	-
Systems Engineering	WR	SSC : San Diego, CA and Charleston, SC	22.630	2.415	Nov 2015	3.434	Nov 2016	2.520	Nov 2017	-		2.520	45.743	76.742	50.798
Systems Engineering	MIPR	US ARMY CECOM (MITRE) : San Diego, CA	2.222	0.000		0.300	Dec 2016	0.300	Nov 2017	-		0.300	5.722	8.544	19.934
Systems Engineering	C/CPFF	CSA : San Diego, CA	0.165	0.556	Feb 2016	0.000		0.000		-		0.000	0.000	0.721	-
Systems Engineering	C/CPFF	TBD : TBD	0.000	0.000		0.000		0.230	Dec 2017	-		0.230	0.000	0.230	-
Subtotal			139.120	19.537		22.009		23.051		-		23.051	296.418	500.135	-
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Studies & Design	MIPR	Washington HQ Services : Washington DC	0.650	0.000		0.000		0.000		-		0.000	0.000	0.650	0.650
Studies & Design	WR	SSC : San Diego, CA	0.388	0.218	Nov 2015	0.195	Jan 2017	0.460	Nov 2017	-		0.460	0.000	1.261	-
Studies and Design	C/CPFF	SRA : San Diego, CA	0.000	0.112	Feb 2016	0.000		0.000		-		0.000	0.000	0.112	-
Certification Authority	C/CPFF	AUSGAR : San Diego,CA	1.300	0.649	Mar 2016	0.000		0.000		-		0.000	10.987	12.936	-
Certification Authority	C/CPFF	NSMA : Washington, DC	0.370	0.000		0.214	Apr 2017	0.000		-		0.000	0.000	0.584	-
Certification Authority	C/CPFF	Innovative Defense Technologies (IDT) : Arlington, VA	0.167	0.000		0.000		0.000		-		0.000	0.000	0.167	-
Certification Authority	C/CPFF	Booz Allen Hamilton (BAH) : San Diego,CA	0.000	0.000		0.695	Dec 2016	0.450	Dec 2017	-		0.450	0.000	1.145	-

**UNCLASSIFIED**

Exhibit R-3, RDT&E Project Cost Analysis: FY 2018 Navy												Date: May 2017			
Appropriation/Budget Activity 1319 / 7						R-1 Program Element (Number/Name) PE 0303138N / Consolidated Afloat Network Ent Services(CANES)				Project (Number/Name) 9C87 / CANES Integration					
Support (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Subtotal			2.875	0.979		1.104		0.910		-		0.910	10.987	16.855	-
Test and Evaluation (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Operational Test & Evaluation	WR	COTF : Norfolk, VA	2.064	0.651	Dec 2015	0.000		0.250	Dec 2017	-		0.250	8.510	11.475	5.891
Operational Test & Evaluation	MIPR	JITC : Fairfax, VA	0.000	0.000		0.167	Feb 2017	0.000		-		0.000	0.000	0.167	-
Development Test & Evaluation	WR	SSC : San Diego, CA	0.406	0.105	Nov 2015	0.145	Nov 2016	0.000		-		0.000	3.967	4.623	-
Development Test & Evaluation	MIPR	JITC : Fairfax, VA	1.368	0.250	Nov 2015	0.000		0.000		-		0.000	4.015	5.633	4.673
Development Test & Evaluation	MIPR	DTIC : Ft Belvoir, VA	0.100	0.000		0.061	Feb 2017	0.000		-		0.000	0.000	0.161	-
Subtotal			3.938	1.006		0.373		0.250		-		0.250	16.492	22.059	-
Management Services (\$ in Millions)				FY 2016		FY 2017		FY 2018 Base		FY 2018 OCO		FY 2018 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 Complete	Total Cost	Target Value of Contract
Prior Year Management Services	Various	Various : Various	11.980	0.000		0.000		0.000		-		0.000	0.000	11.980	2.742
Program Management	C/CPFF	CSA : San Diego, CA	0.204	0.000		0.000		0.000		-		0.000	8.732	8.936	-
Program Management	C/CPFF	STF : San Diego, CA	0.000	0.000		0.055	Jan 2017	0.060	Nov 2017	-		0.060	0.000	0.115	-
Subtotal			12.184	0.000		0.055		0.060		-		0.060	8.732	21.031	-

**UNCLASSIFIED**

<b>Exhibit R-3, RDT&amp;E Project Cost Analysis: FY 2018 Navy</b>										<b>Date:</b> May 2017				
<b>Appropriation/Budget Activity</b> 1319 / 7					<b>R-1 Program Element (Number/Name)</b> PE 0303138N / Consolidated Afloat Network Ent Services(CANES)					<b>Project (Number/Name)</b> 9C87 / CANES Integration				
	<b>Prior Years</b>	<b>FY 2016</b>		<b>FY 2017</b>		<b>FY 2018 Base</b>		<b>FY 2018 OCO</b>		<b>FY 2018 Total</b>	<b>Cost To Complete</b>	<b>Total Cost</b>	<b>Target Value of Contract</b>	
<b>Project Cost Totals</b>	158.117	21.522		23.541		24.271		-		24.271	332.629	560.080	-	
<b>Remarks</b>														



## UNCLASSIFIED

Exhibit R-4, RDT&amp;E Schedule Profile: FY 2018 Navy

Date: May 2017

## Appropriation/Budget Activity

1319 / 7

## R-1 Program Element (Number/Name)

PE 0303138N / Consolidated Afloat Network  
Ent Services(CANES)

## Project (Number/Name)

9C87 / CANES Integration

Exhibit R-4, RDT&amp;E Schedule Profile: PB 2018 Navy

DATE: May 2017

## APPROPRIATION/BUDGET ACTIVITY

RDT&amp;E, N / BA-7

## R-1 Program Element (Number/Name)

PE 0303138N / Consolidated Afloat  
Network Ent Services (CANES)

## Project (Number/Name)

9C87 / CANES Integration

Fiscal Year	2016				2017				2018				2019				2020				2021				2022			
Quarter	1	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
<b>Acquisition Milestones</b>	FDD △																											
<b>Engineering and Manufacturing Development</b>	TI 1 - SW Dev TI 2 - HW/SW Dev TI 3 - SW Dev TI 4 - HW/SW Dev TI 5 - SW Dev																											
<b>Test &amp; Evaluation Milestones</b>	TI2 DTA TI3 DTA TI4 DTA																											
Developmental Test	DT (Subs)																											
Operational Test	FOT&E (Force Level) FOT&E (Subs)																											
<b>Production Milestones</b>	LD FD																											
Limited Deployment (LD)	LD																											
Full Deployment (FD)	FD																											
<b>Deliveries</b>	LD FD																											

**UNCLASSIFIED**

<b>Exhibit R-4A, RDT&amp;E Schedule Details: FY 2018 Navy</b>			<b>Date: May 2017</b>
<b>Appropriation/Budget Activity</b> 1319 / 7	<b>R-1 Program Element (Number/Name)</b> PE 0303138N / Consolidated Afloat Network Ent Services(CANES)	<b>Project (Number/Name)</b> 9C87 / CANES Integration	

**Schedule Details**

<b>Events by Sub Project</b>	<b>Start</b>		<b>End</b>	
	<b>Quarter</b>	<b>Year</b>	<b>Quarter</b>	<b>Year</b>
<b>Fiscal Year</b>				
Acquisition Milestone: Acquisition Milestone - Full Deployment Decision Review (FDD)	1	2016	1	2016
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - Technical Insertion (TI) Software (SW) Development	1	2016	1	2016
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - TI 2 Hardware (HW)/SW Development	2	2016	1	2018
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - TI 3 SW Development	2	2018	1	2020
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - TI 4 HW/SW Development	2	2020	1	2022
Engineering and Manufacturing Development: Platform: Engineering and Manufacturing Development - TI 5 SW Development	2	2022	4	2022
Test & Evaluation Milestone: Development Test: Development Test Assist- TI 2	3	2017	3	2017
Test & Evaluation Milestone: Development Test: Development Test Assist- TI 3	3	2019	3	2019
Test & Evaluation Milestone: Development Test: Development Test Assist- TI 4	3	2021	3	2021
Test & Evaluation Milestone: Development Test: Developmental Test - Sub	1	2019	1	2019
Test & Evaluation Milestone: Operational Test: Operational Test Force Level - Follow-on Operational Test & Evaluation (FOT&E)	1	2016	1	2017
Test & Evaluation Milestone: Operational Test: Operational Test - FOT&E Sub	3	2019	3	2019
Production Milestone: Limited Deployment: Production Milestone - Limited Deployment (LD)	1	2016	3	2016
Production Milestone: Full Deployment: Production Milestone - Full Deployment (FD)	1	2016	4	2022
Deliveries: Deliveries - Limited Deployment (LD)	1	2016	3	2016
Deliveries: Deliveries - Full Deployment (FD)	3	2016	4	2022