

**OSD RDT&E BUDGET ITEM JUSTIFICATION (R2 Exhibit)**

Date: February 2007

APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 5		PE NUMBER AND TITLE <b>0605648D8Z - Defense Acquisition Executive (DAE) Pilot Program</b>						
Cost (\$ in Millions)	FY 2006 Actual	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total Program Element (PE) Cost	0.964	5.980	5.838	5.853	5.906	5.867	5.945	6.028
P650 Defense Acquisition Executive (DAE)	0.964	5.980	5.838	5.853	5.906	5.867	5.945	6.028

**A. Mission Description and Budget Item Justification:** The War On Terrorism challenges the Department of Defense (DoD) to devote resources not only to countering the asymmetric threats posed by adversaries but to also exploit the advantages of technology superiority in new, transformational ways. At the same time, it has become clear that a new balance must be struck between direct support for joint Combatant Commanders (CoComs) fighting on the front line of the War On Terrorism and longer term planned Service investment strategies.

The DoD initiated the Defense Acquisition Executive (DAE) Pilot program in FY 2006 to assist in the continued development and eventual sustainment of a few selected Advanced Concept/Joint Capability Technology Demonstrations (AC/JCTDs) in support of the 2006 Quadrennial Defense Review (QDR) which calls for increasing options for agile and adaptive acquisition process to support the Joint warfighter. The DAE pilot uses Defense Wide Program Elements (PEs) in BA-5 for System Development and Demonstration, Procurement for initial acquisition of equipment, and a limited amount of Operations and Maintenance (O&M) funding at Joint Forces Command (JFCOM). The DAE Pilot program creates an acquisition path for "joint peculiar" programs that do not have a traditional Service or Agency program of record. The program will provide an avenue transformational capabilities from Advanced Concept Technology Demonstrations (ACTDs) and Joint Capability Technology Demonstrations (JCTDs) that may not be covered by Service programs to continue a logical progression of program phases and development in order to be suitable for full production and deployment to the warfighter.

This pilot program will also demonstrate spiral acquisition concepts with a goal of getting priority joint and transformational capabilities deployed to the warfighter more quickly. Specifically, this PE will support selected joint capability technologies that are being integrated into programs that have passed Milestone B and are conducting engineering and manufacturing development to meet validated joint needs. The aim is to fully integrate these more mature capabilities into either an existing system or a new system being deployed. The result should be a successful Milestone C decision. With strong support from CoComs, ACTDs have enhanced joint capabilities providing an "on ramp" to conventional acquisition processes for joint needs in a system that emphasizes Service-sponsored core military capabilities. JCTDs will concentrate that effort with continued emphasis on transitioning demonstration-proven capabilities into Programs of Record (PoR) for sustainment of residuals and rapid acquisition and fielding of production models. The DAE Pilot Program will pioneer a transformational new model for Department of Defense acquisition by using funding in BA5 and Procurement to provide a path for those capabilities that are so transformational that they must be put on a "fast track" to acquisition. The DAE Pilot Program supports the Joint Capabilities Interoperability Development System (JCIDS) by addressing the needs of CoComs directly. The Defense Wide funding for this program in BA3, BA4, BA5 and Procurement allows the Deputy Under Secretary of Defense for Advanced Systems and Concepts (DUSD(AS&C)) on behalf of the DAE (USD (AT&L)) to support the spectrum of technology development through initial acquisition providing the Combatant Commanders, Services, Agencies, and operators with a new model for tailoring acquisition solutions to meet warfighter needs.

Under the new JCTD program, only the ACTD/JCTDs that demonstrate the highest military utility will be considered for the transition funding in the DAE BA5 PE. Many JCTDs will transition smoothly into a well identified program of record and not require funding from these two PEs which are the transition arm of the JCTD model.

In FY 2006, the Joint Automated Deep Operations Coordination System (JADOCS) was selected as the first DAE Pilot program. JADOCS is currently in use by the COCOMs and has

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proven effective in both Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF). It integrates approximately 20 Service and Defense Agency C4ISR systems, making each of the 20 systems more powerful and valuable for the warfighter by creating a truly interoperable and joint Common Operating Picture (COP) for time sensitive targeting and warfighter operations. During the first year, Army utilized the DAE pilot program funding, to sustain/maintain existing COCOM JADOCs capability [infrastructure, software, and technical field support]; develop new functionality based upon emerging critical OIF/OEF requirements; and began the three year process of transitioning JADOCs functionality into Joint Net Enabled Command Capability (NECC) the replacement for the COCOM's Global Command Control System in FY10.

<b><u>B. Program Change Summary</u></b>	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget (FY 2007)	0.985	6.015	6.016	6.017
Current BES/President's Budget (FY 2008/2009)	0.964	5.980	5.838	5.853
Total Adjustments	-0.021	-0.035	-0.178	-0.164
Congressional Program Reductions		-0.035		
Congressional Rescissions				
Congressional Increases				
Reprogrammings				
SBIR/STTR Transfer	-0.021			
Other			-0.178	-0.164

In FY06 and FY07 there were no congressional increases or decreases to the Defense Acquisition Executive (DAE) program element. Congressional rescissions and other taxes such as Section 8125 and FFRDC totaled \$15 thousand that were displayed in the FY 2007 President's Budget. The SBIR/STTR transfer totaled \$21 thousand. In FY07 the Congressional rescissions and other taxes such as Section 8023 for FFRDC totaled \$35.

<b><u>C. Other Program Funding Summary</u></b>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
JCTD Procurement (OSD Major Equipment: PE 0902198D8Z)	0.985	1.972	1.961	1.967	1.986	1.974	2.000	2.028	0.000	14.873

Comment: The new JCTD Program provides a "cradle to grave" path for transformational joint capabilities. The model contains a BA3 development arm as well as the JCTD Transition (BA4) PE and Defense Acquisition Executive Pilot (BA5). Under the new JCTD process, only the ACTD/JCTDs that demonstrate the highest military utility will be considered for the transition funding in the JCTD BA4 Transition PE. Promising ACTDs may receive transition funding during the transition period to the JCTD program.

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The DoD also initiated the Defense Acquisition Executive (DAE) Pilot program in FY 2006 to assist in the continued development and eventual sustainment of a few selected Advanced Concept/Joint Capability Technology Demonstrations (AC/JCTDs). The DAE Pilot program creates an acquisition path for "joint peculiar" programs that do not have a traditional Service or Agency program of record. For sustainment of the selected projects the DAE Pilot uses Defense Wide Program Elements (PEs) in BA-5 for System Development and Demonstration, Procurement for initial acquisition of equipment, and a limited amount of Operations and Maintenance (O&M) funding at Joint Forces Command (JFCOM).

**D. Acquisition Strategy** The DAE Pilot will review and select the most promising "joint peculiar" JCTDs or ACTDs that do not neatly fit under a Service area of responsibility and provide resources to enable the smooth transition of a critical capability to the warfighter. The DAE will provide an avenue for joint and transformational capabilities that are not easily resourced by any one Service. The DAE pilot program aims to continue a logical progression of program phases and development in order to be suitable for full production and deployment to the warfighter. The DAE Pilot is part of the new JCTD model established in the FY 2006 President's Budget.

Only the ACTD/JCTDs that demonstrate the highest military utility will be considered for the transition funding in the JCTD BA4 Transition PE and the DAE BA5 PE. Many JCTDs will transition smoothly into a well identified program of record and not require funding from these two PEs which comprise the transition arm of the JCTD model. Promising ongoing ACTDs may also receive transition funding from the JCTD Transition arm as the ACTD program completes.

Fitting the JCTD model strategy, the Joint Automated Deep Operations Coordination System (JADOCS) ACTD was selected as the first DAE Pilot project in FY 2006. JADOCS is under the purview of the Joint Precision Strike Demonstration (JPSD) program office and is providing new, enhanced automation support to command centers and component headquarters for horizontal and vertical interoperability of approximately twenty (20) C4ISR systems in the areas of Strike Planning, Situational Awareness, Joint and Combined Interoperability, and Force Transition in War. Currently, this joint capability has not been absorbed into a program of record prior to FY-08. To the joint warfighter, JADOCS has become a critical "go to war" planning and engagement execution tool. It continues to be used in OEF and OIF. The JADOCS prototype system is operationally deployed in four CoCom theaters. It is integrated with each Military Service and several Defense Agencies, with a wide range of real-world applications, from the tactical to the strategic level. JADOCS has not been supported by the Services as a program of record; however, it has evolved into a joint warfighting system deployed to over 900 locations and employed by over 5,000 joint operators worldwide. While still a prototype, it is presently embedded in the C2 architecture at USCENTCOM, USPACOM, USFK, and USEUCOM.

**E. Performance Metrics:**

FY	Strategic Goals Supported	Existing Baseline	Planned Performance Improvement / Requirement Goal	Actual Performance Improvement	Planned Performance Metric / Methods of Measurement	Actual Performance Metric / Methods of Measurement
08	Project Selection Focus					
08	Spiral Technologies					

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08	Final Demonstration Completed					
08	Shared Funding and Visibility					
08	Independent MUA Assessment					
08	Transition of technology					

Comment: The majority of funding from this Program Element is forwarded to the Services/Defense Agencies that execute the individual ACTD projects. DUSD(AS&C) maintains and provides overall programmatic oversight for the ACTD program, to include the individual ACTD projects. The JCTD/ACTD performance metrics center on how fast relevant joint and/or transformational technologies can be demonstrated and provided to the joint warfighter. These metrics are driven by the overall business process which includes six parts: (1) selection focus; (2) ability to spin-off spiral technologies; (3) time necessary to complete a final demonstration; (4) adequately resourced projects with appropriate oversight; (5) capability to complete an independent assessment of the technology; and (6) the number of successful capabilities that are actually transitioned to the warfighter. The table below defines these metrics and helps compare/contrast the current ACTD program with the new JCTD business process model.

A comparison of ACTD and JCTD metrics are:

1) Project Selection Focus:

- a. ACTD - Threat based: shared military service and CoCom influence.
- b. JCTD - Capability Based: Greater CoCom influence looking at nearer term joint/coalition needs.

2) Sprial Technologies:

- a. ACTD - No metric
- b. JCTD - 25% will provide an operationally relevant product demonstration within 24 months of ID signature.

3) Final Demonstation Completed

- a. ACTD - 3 to 4 years after initiation
- b. JCTD - 75% of projects complete final demonstration within three years of ID signature.

4) Shared Funding and Viability of resources:

- a. ACTD - OSD provides no more than 30% of the budgeted resources. Funding provided form many different program elements.
- b. JCTD - OSD provides significantly more funding, greater than 30% in some cases a majority of projected funding, especially in the first two years.

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<b>OSD RDT&amp;E COST ANALYSIS (R3)</b>										Date: February 2007		
APPROPRIATION/ BUDGET ACTIVITY RDT&E/ Defense Wide BA# 5			PE NUMBER AND TITLE <b>0605648D8Z - Defense Acquisition Executive (DAE) Pilot Program</b>							PROJECT <b>0605648D8Z</b>		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Primary Hardware Development			964	5980		5838		5853		0	18635	0
Subtotal:			964	5980		5838		5853		0	18635	0
II. Support Costs	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
III. Test And Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2007 Cost	FY 2007 Award Date	FY 2008 Cost	FY 2008 Award Date	FY 2009 Cost	FY 2009 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0									
<b>Project Total Cost:</b>			<b>964</b>	<b>5980</b>		<b>5838</b>		<b>5853</b>		<b>0</b>	<b>18635</b>	<b>0</b>

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**Schedule Detail (R4a Exhibit)**

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APPROPRIATION/ BUDGET ACTIVITY  
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**0605648D8Z - Defense Acquisition Executive (DAE) Pilot Program**

PROJECT

**0605648D8Z**

<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>
Planning	1-4Q							
Software Development	1-4Q							
Internal Test	2Q	1-3Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q
External Test	2-4Q	2Q						
Fielding	3Q	1-4Q	4Q	4Q	4Q	4Q	4Q	4Q
Support	1-4Q							

**Comment:** Development schedule and milestone chart is in Exhibit R4a.

**OSD RDT&E PROJECT JUSTIFICATION (R2a Exhibit)**

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P650 Defense Acquisition Executive (DAE)	0.964	5.980	5.838	5.853	5.906	5.867	5.945	6.028	

**A. Mission Description and Project Justification:** The War On Terrorism challenges the Department of Defense (DoD) to devote resources not only to countering the asymmetric threats posed by adversaries but to also exploit the advantages of technology superiority in new, transformational ways. At the same time, it has become clear that a new balance must be struck between direct support for joint Combatant Commanders (CoComs) fighting on the front line of the War On Terrorism and longer term planned Service investment strategies.

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This pilot program will also demonstrate spiral acquisition concepts with a goal of getting priority joint and transformational capabilities deployed to the warfighter more quickly. Specifically, this PE will support selected joint capability technologies that are being integrated into programs that have passed Milestone B and are conducting engineering and manufacturing development to meet validated joint needs. The aim is to fully integrate these more mature capabilities into either an existing system or a new system being deployed. The result should be a successful Milestone C decision. With strong support from CoComs, ACTDs have enhanced joint capabilities providing an "on ramp" to conventional acquisition processes for joint needs in a system that emphasizes Service-sponsored core military capabilities. JCTDs will concentrate that effort with continued emphasis on transitioning demonstration-proven capabilities into Programs of Record (PoR) for sustainment of residuals and rapid acquisition and fielding of production models. The DAE Pilot Program will pioneer a transformational new model for Department of Defense acquisition by using funding in BA5 and Procurement to provide a path for those capabilities that are so transformational that they must be put on a "fast track" to acquisition. The DAE Pilot Program supports the Joint Capabilities Interoperability Development System (JCIDS) by addressing the needs of CoComs directly. The Defense Wide funding for this program in BA3, BA4, BA5 and Procurement allows the Deputy Under Secretary of Defense for Advanced Systems and Concepts (DUSD(AS&C)) on behalf of the DAE (USD (AT&L)) to support the spectrum of technology development through initial acquisition providing the Combatant Commanders, Services, Agencies, and operators with a new model for tailoring acquisition solutions to meet warfighter needs.

Under the new JCTD program, only the ACTD/JCTDs that demonstrate the highest military utility will be considered for the transition funding in the DAE BA5 PE. Many JCTDs will transition smoothly into a well identified program of record and not require funding from these two PEs which are the transition arm of the JCTD model.

In FY 2006, the Joint Automated Deep Operations Coordination System (JADOCS) was selected as the first DAE Pilot program. JADOCS is currently in use by the COCOMs and has

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proven effective in both Operation Enduring Freedom (OEF) and Operation Iraqi Freedom (OIF). It integrates approximately 20 Service and Defense Agency C4ISR systems, making each of the 20 systems more powerful and valuable for the warfighter by creating a truly interoperable and joint Common Operating Picture (COP) for time sensitive targeting and warfighter operations. During the first year, Army utilized the DAE pilot program funding, to sustain/maintain existing COCOM JADOCs capability [infrastructure, software, and technical field support]; develop new functionality based upon emerging critical OIF/OEF requirements; and began the three year process of transitioning JADOCs functionality into Joint Net Enabled Command Capability (NECC) the replacement for the COCOM's Global Command Control System in FY10.

**B. Accomplishments/Planned Program:**

Accomplishment/Planned Program Title	FY 2006	FY 2007	FY 2008	FY 2009
Joint Automated Deep Operations Coordination System (JADOCs)	0.964	5.980	5.838	5.853

The Joint Automated Deep Operations Coordination System (JADOCs) is the Department's "go to war" system for targeting and fire support coordination. It is the first DAE pilot program the Department is sponsoring under this innovative process that will maintain the development of a capability coming out of a successful Advanced Concept Technology Demonstration (ACTD) but is not yet ready for a Service program of record. The outcome anticipated in JADOCs is a fully functioning, C4ISR capability that is seamlessly joint, integrating approximately 20 different Service and Agency systems into one common operational picture for the Combatant Commander (CoCOM).

The Joint Automated Deep Operations Coordination System (JADOCs) is a successful product of a series of previous ACTDs, most notably the Theater Precision Strike Operations (TPSO) and Counter-Multiple Rocket Launcher (C-MRL) ACTDs. JADOCs has evolved into a joint warfighter system application with over 2,000 workstations and 3,000 users worldwide. It is presently embedded in the architecture at USCENTCOM, USPACOM, USFK, and USEUCOM, but has not been formally designated a program of record. JADOCs provides a critical warfighting capability for the CoComs, including use in OIF and OEF as a residual leave behind capability from the ACTD. This system was previously employed in U.S. Tsunami relief humanitarian efforts and recently began to support USNORTHCOM for C2 automation of Defense Support to Civil Authorities. JADOCs is the system used for Time Sensitive Targeting coordination within the USCENTCOM AOR. The JADOCs capability includes software, tactics, techniques, and procedures (TTP), and field support. JADOCs is managed by PEO C3T's, PM Battle Command Fire Support Command and Control Program Office.

The initial Automated Deep Operations Coordination System (ADOCS) system was renamed as the Joint Automated Deep Operations Coordination System (JADOCs) in FY 2005. In Oct 2005, the Army accepted joint responsibility to begin transition of JADOCs functionality into PM Battle Command Fire Support Command and Control and is being modernized and integrated into the NECC architecture. Until the transition to NECC is complete in 2009, JADOCs will continue to meet the critical requirements of the CoCom by providing enhanced automation support to command centers and component headquarters for horizontal and vertical interoperability of C4ISR systems in the areas of Strike Planning, Situational Awareness, Joint and Combined Interoperability, Joint Targeting, Force Transition in War, and Defense Support to Civil Authorities.

The funds identified in the DAE Pilot program in FY07 through FY09 will enable modernization of the JADOCs architecture to ensure compatibility with the Army Battle Command System and the DoD Network Enhanced Command Capability (NECC); continuing the JADOCs business model of responding to evolving urgent warfighter requirements with operational capabilities, and ensuring JADOCs remains a joint versus Service specific capability.

- FY06 Output: Enabled a network-centric capability in JADOCs, and phase I Collateral Damage Estimator (CDE). JADOCs continues to be used by the CoCom as a joint, C4ISR residual capability that originated from the TPSO ACTD which ended in FY-03.

- FY07 Planned Output: Develop and field new operational capabilities in response to a USCENTCOM Urgent Needs Statement; Increased capability will address asymmetric threats faster. Provide prototype set of NECC services; provide second generation CDE capability.

- FY08 Planned Output: Refine CENTCOM Urgent Needs Statement capabilities for improved targeting in an asymmetric warfighting environment; provide enhanced technical capability for prototype NECC

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services to begin transition to the NECC program of record.  
 - FY09 Planned Output: Military Utility Assessment of new CENTCOM targeting capabilities will be assessed. Continue final development preparation for transition to the Army Battle Command System and NECC. Transition/Acquisition strategy will see a fully operational JADOCS capability within a PoR by FY 2010.

<u>C. Other Program Funding Summary</u>	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	To Compl	Total Cost
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Comment: The new JCTD Program provides a "cradle to grave" path for transformational joint capabilities. The model contains a BA3 development arm as well as the JCTD Transition (BA4) PE and Defense Acquisition Executive Pilot (BA5). Under the new JCTD process, only the ACTD/JCTDs that demonstrate the highest military utility will be considered for the transition funding in the JCTD BA4 Transition PE. Promising ACTDs may receive transition funding during the transition period to the JCTD program.

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planning and engagement execution tool. It continues to be used in OEF and OIF. The JADOCs prototype system is operationally deployed in four CoCom theaters. It is integrated with each Military Service and several Defense Agencies, with a wide range of real-world applications, from the tactical to the strategic level. JADOCs has not been supported by the Services as a program of record; however, it has evolved into a joint warfighting system deployed to over 900 locations and employed by over 5,000 joint operators worldwide. While still a prototype, it is presently embedded in the C2 architecture at USCENTCOM, USPACOM, USFK, and USEUCOM.

**E. Major Performers** Not Applicable.

**Schedule Profile (R4 Exhibit)**

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PROJECT  
**P650**

Event Name	FY 06				FY 07				FY 08				FY 09				FY 10				FY 11				FY 12				FY 13			
	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	1	2	3	4
Planning, Planning	█				█																											
Planning, Planning					█				█																							
Planning									█				█																			
Planning													█				█															
Planning																	█				█											
Software Development, Software Development	█						█																									
Software Development, Software Development					█						█																					
Software Development									█				█																			
Software Development															█																	
Software Development																							█									
Internal Testing			█																													
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Internal Testing, Internal Testing												█																				

Internal Testing, Internal Testing

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**Schedule Detail (R4a Exhibit)**

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<u>Schedule Detail</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u>	<u>FY 2012</u>	<u>FY 2013</u>	
1.0.2.0	1-3Q								
1.0.3.0	1-4Q	1Q							
1.0.4.0	2-4Q	1-4Q							
1.0.5.0		1-4Q	1-3Q						
1.0.6.0		3-4Q	1-4Q	1-2Q					
1.0.7.0			3-4Q	1-4Q	1-2Q				
1.0.8.0				3-4Q	1-4Q	1-2Q			
1.0.9.0					3-4Q	1-4Q	1-2Q	1Q	

**Comment:**