Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force										DATE: February 2011	
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*				R-1 ITEM NOMENCLATURE PE 0303601F: *MILSATCOM Terminals*							
COST ($ in Millions)	**FY 2010**	**FY 2011**	**FY 2012 Base**	**FY 2012 OCO**	**FY 2012 Total**	**FY 2013**	**FY 2014**	**FY 2015**	**FY 2016**	**Cost To Complete**	**Total Cost**
Total Program Element	239.352	186.582	238.729	-	238.729	136.666	15.970	13.030	13.275	Continuing	Continuing
672487: *MILSATCOM Terminals*	239.352	186.582	238.729	-	238.729	136.666	15.970	13.030	13.275	Continuing	Continuing

Note

The program funding includes Overhead reduction efficiencies that are not intended to impact program content. The efficiencies reductions total $0.948M in FY12.

A. Mission Description and Budget Item Justification

Totals include funding for PRCP Program Numbers, 199, FAB-T, and 237, GBS

The Military Satellite Communications (MILSATCOM) Terminals program develops and fields equipment enabling users to communicate via legacy and future systems to include Milstar, Advanced Extremely High Frequency (AEHF), Ultra High Frequency (UHF) Follow-On (UFO), Wideband Global SATCOM (WGS), Defense Satellite Communication System (DSCS), Enhanced Polar Systems (EPS), and other military and commercial satellites, to support tactical Air and Space Expeditionary Force requirements and maintain essential connectivity for strategic forces. Program RDT&E currently includes the following program efforts:

1) Concept development work to identify commercial/military technology solutions to improve MILSATCOM terminal capabilities for the warfighters. Focus includes, but is not limited to, increasing throughput, facilitating sustainability, reducing footprint on user platform and supporting the Global Information Grid (GIG). Funding in FY12 continues support for Advanced Development activities.

2) The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program will provide Extremely High Frequency (EHF) voice and data MILSATCOM for nuclear and conventional forces as well as airborne and ground command posts with connectivity to Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the command and control (C2) of Milstar, AEHF, and EPS satellites. Funding in FY12 continues the development of FAB-T.

3) The High Data Rate - Radio Frequency (HDR-RF) Ground Terminal program will provide the high data rate SATCOM connectivity needed to support the Intelligence, Surveillance and Reconnaissance (ISR) community with High Bandwidth High Throughput (HBHT) capability. HDR-RF Ground Terminals will be used for Command & Control, Intelligence, Surveillance and Reconnaissance (C2ISR), and will support the full spectrum of operations from humanitarian support/disaster relief to a major theater war. HDR-RF Ground Terminals will be interoperable with WGS satellites to support Air Intelligence Surveillance Reconnaissance (AISR) data rates up to 274Mbps. HDR-RF Ground Terminals will provide quad band (C-, X-, Ku- and Ka-band) SATCOM. HDR-RF Ground Terminals will be interoperable with legacy tactical terminals and operate worldwide with existing military and commercial spacecraft. The user of HDR-RF Ground Terminals is to support ISR Missions. HDR-RF funds support Phase II modem wave porting efforts supporting modem qualification with multiple waveforms, test and evaluation, program office support, system engineering and other related activities. Funding in FY12 continues the development of the HDR-RF Ground Terminal.

4) The Joint Terminal Engineering Office (JTEO) provides tri-service coordination of terminal development, acquisition and fielding activities. Funding in FY12 continues support for JTEO activities.

Exhibit R-2, RDT&E Budget Item Justification: PB 2012 Air Force	DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303601F: *MILSATCOM Terminals*

5) The Global Broadcast Service (GBS) provides for development, systems engineering and integration, test, Transmission Security (TRANSEC) compliance development, program office support of Receive Suites and continued analysis of Operational Requirements Document (ORD) III requirements. Receive suite development will continue in FY11. While the GBS program is in the Operations and Sustainment phase of its lifecycle, the Receive Suite efforts are still conducting development and are captured in this Budget Activity. No funding is requested in FY12

6) The High Data Rate Airborne Terminal (HDRAT) will develop a high data rate SATCOM terminal solution in support of AISR platforms and other supporting activities. As a minimum, HDRAT will provide for secure Ka/Ku high data rate satellite links (over commercial and government owned assets) and line-of-sight communications supporting airborne intelligence, surveillance, and reconnaissance (AISR) platforms. This program will provide AISR platforms with antenna solutions, modem assemblies, and the appropriate waveforms capable of supporting high resolution sensor data and C2 links at speed up to 274 Mbps (platform and mission dependent). To support technical risk analysis, the Terminals Program Office (TPO) shall provide the Analysis of Alternatives (AoA) study team data on risks, mitigation techniques, contractual activities designed to mitigate those risks, and on-going high speed airborne waveform development efforts not limited to Global Hawk. No funding is requested in FY12. AoA activities continue with previous year funding.

B. Program Change Summary ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Previous President's Budget	253.818	186.582	105.274	-	105.274
Current President's Budget	239.352	186.582	238.729	-	238.729
Total Adjustments	-14.466	-	133.455	-	133.455
• Congressional General Reductions		-			
• Congressional Directed Reductions		-			
• Congressional Rescissions	-	-			
• Congressional Adds		-			
• Congressional Directed Transfers		-			
• Reprogrammings	-0.303	-			
• SBIR/STTR Transfer	-9.213	-			
• Other Adjustments	-4.950	-	133.455	-	133.455

Change Summary Explanation

Additional $165.052M in FY12 is due to a restructure of the FAB-T program. Program challenges extended the development schedule, and drove the need for additional RDT&E funds in FY12, as well as delayed the Low Rate Initial Production (LRIP) contract until FY13. Other adjustments support higher Air Force priorities.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force			DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303601F: *MILSATCOM Terminals*	PROJECT 672487: *MILSATCOM Terminals*	

COST ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
672487: *MILSATCOM Terminals*	239.352	186.582	238.729	-	238.729	136.666	15.970	13.030	13.275	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		

Note

Overhead reduction efficiency -- $948K in FY12

A. Mission Description and Budget Item Justification

Totals include funding for PRCP Program Numbers, 199, FAB-T, and 237, GBS

The Military Satellite Communications (MILSATCOM) Terminals program develops and fields equipment enabling users to communicate via legacy and future systems to include Milstar, Advanced Extremely High Frequency (AEHF), Ultra High Frequency (UHF) Follow-On (UFO), Wideband Global SATCOM (WGS), Defense Satellite Communication System (DSCS), Enhanced Polar Systems (EPS), and other military and commercial satellites, to support tactical Air and Space Expeditionary Force requirements and maintain essential connectivity for strategic forces. Program RDT&E currently includes the following program efforts:

1) Concept development work to identify commercial/military technology solutions to improve MILSATCOM terminal capabilities for the warfighters. Focus includes, but is not limited to, increasing throughput, facilitating sustainability, reducing footprint on user platform and supporting the Global Information Grid (GIG). Funding in FY12 continues support for Advanced Development activities.

2) The Family of Advanced Beyond Line-of-Sight Terminals (FAB-T) program will provide Extremely High Frequency (EHF) voice and data MILSATCOM for nuclear and conventional forces as well as airborne and ground command posts with connectivity to Milstar, AEHF, and Enhanced Polar System (EPS) satellites. FAB-T terminals will also support the command and control (C2) of Milstar, AEHF, and EPS satellites. Funding in FY12 continues the development of FAB-T.

3) The High Data Rate - Radio Frequency (HDR-RF) Ground Terminal program will provide the high data rate SATCOM connectivity needed to support the Intelligence, Surveillance and Reconnaissance (ISR) community with High Bandwidth High Throughput (HBHT) capability. HDR-RF Ground Terminals will be used for Command & Control, Intelligence, Surveillance and Reconnaissance (C2ISR), and will support the full spectrum of operations from humanitarian support/disaster relief to a major theater war. HDR-RF Ground Terminals will be interoperable with WGS satellites to support Air Intelligence Surveillance Reconnaissance (AISR) data rates up to 274Mbps. HDR-RF Ground Terminals will provide quad band (C-, X-, Ku- and Ka-band) SATCOM. HDR-RF Ground Terminals will be interoperable with legacy tactical terminals and operate worldwide with existing military and commercial spacecraft. The user of HDR-RF Ground Terminals is to support ISR Missions. HDR-RF funds support Phase II modem wave porting efforts supporting modem qualification with multiple waveforms, test and evaluation, program office support, system engineering and other related activities. Funding in FY12 continues the development of the HDR-RF Ground Terminal.

4) The Joint Terminal Engineering Office (JTEO) provides tri-service coordination of terminal development, acquisition and fielding activities. Funding in FY12 continues support for JTEO activities.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303601F: *MILSATCOM Terminals*	PROJECT 672487: *MILSATCOM Terminals*

5) The Global Broadcast Service (GBS) provides for development, systems engineering and integration, test, Transmission Security (TRANSEC) compliance development, program office support of Receive Suites and continued analysis of Operational Requirements Document (ORD) III requirements. Receive suite development will continue in FY11. While the GBS program is in the Operations and Sustainment phase of its lifecycle, the Receive Suite efforts are still conducting development and are captured in this Budget Activity. No funding is requested in FY12

6) The High Data Rate Airborne Terminal (HDRAT) will develop a high data rate SATCOM terminal solution in support of AISR platforms and other supporting activities. As a minimum, HDRAT will provide for secure Ka/Ku high data rate satellite links (over commercial and government owned assets) and line-of-sight communications supporting airborne intelligence, surveillance, and reconnaissance (AISR) platforms. This program will provide AISR platforms with antenna solutions, modem assemblies, and the appropriate waveforms capable of supporting high resolution sensor data and C2 links at speed up to 274 Mbps (platform and mission dependent). To support technical risk analysis, the Terminals Program Office (TPO) shall provide the Analysis of Alternatives (AoA) study team data on risks, mitigation techniques, contractual activities designed to mitigate those risks, and on-going high speed airborne waveform development efforts not limited to Global Hawk. No funding is requested in FY12. AoA activities continue with previous year funding.

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
Title: MILSATCOM Terminals	239.352	186.582	238.729	-	238.729
Description: MILSATCOM Terminals program develops and fields equipment enabling users to communicate via legacy and future systems to include Milstar, AEHF, UFO, WGS, DSCS, EPS, and other military and commercial satellites, to support tactical Air and Space Expeditionary Force requirements and maintain essential connectivity for strategic forces. Programs within MILSATCOM Terminals include Advanced Development, FAB-T, HDR-RF, JTEO, GBS, and HDRAT					
FY 2010 Accomplishments: 1. Continue concept development/prototype demonstrations/MILSATCOM Terminal roadmap. 2. Continue development of FAB-T Terminal. 3. Continue development of the HDR-RF Ground Terminal. 4. Continue support for the JTEO. 5. Develop GBS rucksack terminal. 6. Support HDRAT AoA activites. Continue program support and other related activities.					
FY 2011 Plans: 1. Continue concept development/prototype demonstrations/MILSATCOM Terminal roadmap. 2. Continue development of FAB-T Terminal. 3. Continue development of the HDR-RF Ground Terminal.					

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303601F: *MILSATCOM Terminals*	PROJECT 672487: *MILSATCOM Terminals*

B. Accomplishments/Planned Programs ($ in Millions)	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total
4. Continue support for the JTEO. 6. Continue support for HDRAT AoA activites. Continue program support and other related activities. ***FY 2012 Base Plans:*** 1. Continue concept development/prototype demonstrations/MILSATCOM Terminal roadmap. 2. Continue development of FAB-T Terminal. 3. Continue development of the HDR-RF Ground Terminal. 4. Continue support for the JTEO. Continue program support and other related activities. ***FY 2012 OCO Plans:***					
Accomplishments/Planned Programs Subtotals	239.352	186.582	238.729	-	238.729

C. Other Program Funding Summary ($ in Millions)

Line Item	FY 2010	FY 2011	FY 2012 Base	FY 2012 OCO	FY 2012 Total	FY 2013	FY 2014	FY 2015	FY 2016	Cost To Complete	Total Cost
• PE 0303601F: *MILSATCOM Terminals, APAF*	10.488	152.594	50.921	0.000	50.921	89.206	127.728	83.125	84.617	Continuing	Continuing
• PE 0303601F (1): *MILSATCOM Terminals, OPAF*	136.274	219.634	104.468	0.000	104.468	353.958	190.078	56.142	56.915	Continuing	Continuing

D. Acquisition Strategy

FAB-T provides a Family of Beyond Line-of-Sight (BLOS) satellite communications (SATCOM) and Line-of-Sight (LOS) terminals with an open architecture to satisfy the requirements identified in the Advanced Wideband Terminal (AWT) and Command Post Terminal (CPT) Operational Requirements Documents (ORDs) and FAB-T Capability Development Document (CDD).

FAB-T provides the layered architecture which enables support for evolving and new communication capabilities and technologies. Capabilities include transmission and reception of voice, data, imagery, and video as well as broadcast reception over protected and LOS systems. FAB-T also provides the capability for air and ground communications using the Milstar Extremely High Frequency (EHF) and Advanced Extremely High Frequency (AEHF) waveforms. FAB-T terminals are planned for the B-2, B-52, and RC-135 aircraft and to upgrade the existing Command Post Terminals (CPTs) located on the ground (fixed and transportable) and airborne on the E-4 and E-6 aircraft.

Exhibit R-2A, RDT&E Project Justification: PB 2012 Air Force		DATE: February 2011
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The HDR-RF Ground Terminal Program consists of three Phases. Phase 1, the Ground Modem Application Demonstration phase, consists of multiple contractors developing an SCA version 2.2.1 compliant, HDR-RF Ground HBHT modem, which will port/run a Government provided test waveform. This phase culminates in a demonstration/test of the vendor's modem hardware and facilitates HBHT SCA modem availability when the standardized operational waveform is complete. Phase 2 consists of porting and demonstrating of the standardized operational waveform, and qualifying the modem. Phase 3 consists of integrating/qualifying the HDR-RF ground modem into an existing Ground Multi-band Terminals, obtaining appropriate certifications, producing, and fielding the system to communicate over WGS using transponded Ka-band satellite communications.

GBS provides warfighters with a worldwide, seamless, high throughput broadcast information service to support today's and tomorrow's mission. The Receive Suite (RS) development will satisfy the portable receive suite requirements identified in the GBS Operational Requirements Document. (ORD) III Block-3. RS provides Special Operations use of GBS in operational areas; capabilities include reception of voice, data, imagery and video. The RS shall be manpackable and fit into a single rucksack with a weight limit of 20 pounds. The progam strategy is to design, develop, and test a RS for special operation use and testing and integration to fulfill the GBS TRANSEC requirement.

The development funding for HDRAT will support those activities associated with providing a high data rate satellite and line-of-sight communications solutions for the passage of AISR, C3, and force direction data to/from airborne platforms and other supporting activities. The resulting solution will provide for new antenna equipment; modem assemblies; updated high data rate waveforms; and program office support. Aquisition strategies will be shaped by AoA outputs or leadership direction and will be IAW statutory requirements.

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.

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	R-1 ITEM NOMENCLATURE PE 0303601F: *MILSATCOM Terminals*	PROJECT 672487: *MILSATCOM Terminals*

Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
FAB-T Development	C/CPAF	Boeing Corp:Huntington Beach, CA	1,408.851	123.556	Jan 2011	216.803	Jan 2012	-		216.803	Continuing	Continuing	0.000
FAB-T	Various	Various:Various,	54.206	-		-		-		-	Continuing	Continuing	0.000
High Data Rate (HDR) RF Ground Terminal Development (1)	C/FFP	Comtech:Tempe, AZ	5.993	-		-		-		-	Continuing	Continuing	0.000
High Data Rate (HDR) RF Ground Terminal Development (2)	C/FFP	Raytheon:Marborough, MA	6.365	-		-		-		-	Continuing	Continuing	0.000
High Data Rate (HDR) RF Ground Terminal Development (3) (LAB)	C/FFP	L3 Comm:Hauppauge, NY	1.767	-	Jan 1901	-	Jan 1901	-		-	0.000	1.767	0.000
High Data Rate (HDR) RF Ground Terminal Development (4)	TBD	TBD:TBD,	-	1.545	Apr 2011	-		-		-	0.000	1.545	0.000
High Data Rate (HDR) RF Air Terminal Development (merged with FAB-T beginning in FY06)	C/CPAF	Boeing Corp:Huntington Beach, CA	13.787	-		-		-		-	0.000	13.787	0.000
Lasercom Terminal Development Studies	C/FFP	Various:Various,	30.395	-		-		-		-	0.000	30.395	0.000
Global Broadcast Service (GBS)	Various	Various:Various,	1.839	-		-		-		-	0.000	1.839	0.000
Northrop - High Data Rate Airborne Terminal (HDRAT)	C/FFP	Various:Palmdale, CA	-	4.500	Apr 2011	-		-		-	0.000	4.500	0.000
AF Space Command (AoA) - High Data Rate Airborne Terminal (HDRAT)	Various	Various:Colorado Springs, CO	-	2.000	Oct 2010	-		-		-	0.000	2.000	0.000
MITRE (FFRDC) - High Data Rate Airborne Terminal (HDRAT)	Various	Various:Boston, MA	-	6.100	Oct 2010	-		-		-	0.000	6.100	0.000
	TBD	Various:Boston, MA	-	6.700	Dec 2010	-		-		-	0.000	6.700	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force		DATE: February 2011
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Product Development ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
MIT/Lincoln Labs - High Data Rate Airborne Terminal (HDRAT)													
High Data Rate Airborne Terminal (HDRAT)	TBD	TBD:TBD,	-	10.746	Jan 2010	-		-		-	0.000	10.746	0.000
		Subtotal	1,523.203	155.147		216.803		-		216.803			0.000

Support ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Systems Engineering Support	C/CPAF	MITRE:Bedford MA,	13.563	12.699	Jan 2011	7.870	Jan 2012	-		7.870	Continuing	Continuing	0.000
Systems Engineering/ Functional/Financial Support	Various	Various:Various,	11.481	7.911	Jan 2011	8.439	Jan 2012	-		8.439	Continuing	Continuing	0.000
Miscellaneous	Various	Various:Various,	4.718	5.207	Jan 2011	3.311	Jan 2012	-		3.311	Continuing	Continuing	0.000
		Subtotal	29.762	25.817		19.620		-		19.620			0.000

Test and Evaluation ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
Various Programs	Various	AF Research Lab:,	5.070	4.618	Jan 2011	1.769	Jan 2012	-		1.769	Continuing	Continuing	0.000
Miscellaneous T&E	Various	Various:Various,	-	1.000	Jan 2011	0.537	Jan 2012	-		0.537	Continuing	Continuing	0.000
		Subtotal	5.070	5.618		2.306		-		2.306			0.000

Management Services ($ in Millions)

Cost Category Item	Contract Method & Type	Performing Activity & Location	Total Prior Years Cost	FY 2011 Cost	FY 2011 Award Date	FY 2012 Base Cost	FY 2012 Base Award Date	FY 2012 OCO Cost	FY 2012 OCO Award Date	FY 2012 Total Cost	Cost To Complete	Total Cost	Target Value of Contract
		Subtotal	-	-		-		-		-	0.000	0.000	0.000

Exhibit R-3, RDT&E Project Cost Analysis: PB 2012 Air Force			DATE: February 2011
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	Total Prior Years Cost	FY 2011		FY 2012 Base		FY 2012 OCO		FY 2012 Total	Cost To Complete	Total Cost	Target Value of Contract
Project Cost Totals	1,558.035	186.582		238.729		-		238.729			0.000

Remarks

Exhibit R-4, RDT&E Schedule Profile: PB 2012 Air Force		DATE: February 2011
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Exhibit R-4A, RDT&E Schedule Details: PB 2012 Air Force		DATE: February 2011
APPROPRIATION/BUDGET ACTIVITY 3600: *Research, Development, Test & Evaluation, Air Force* BA 7: *Operational Systems Development*	**R-1 ITEM NOMENCLATURE** PE 0303601F: *MILSATCOM Terminals*	**PROJECT** 672487: *MILSATCOM Terminals*

Schedule Details

	Start		End	
Events	**Quarter**	**Year**	**Quarter**	**Year**
GBS Receive Suite Award	1	2011	3	2011
HDRAT AoA	3	2010	1	2011
FAB-T LDR AWT (Quad-X) Test	1	2010	2	2010
FAB-T Block 6 EDMs	1	2010	4	2010
FAB-T XDR CPT/AWT	1	2010	4	2010
FAB-T S/W Test	1	2010	2	2012
FAB-T Intergration	1	2011	4	2011
FAB-T FQT	2	2012	4	2012