

UNCLASSIFIED

FY 2003 RDT&E, N PROJECT JUSTIFICATION

Exhibit R-2, RDT&E,N Budget Item Justification

Date: February 2002

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0604280N

PROGRAM ELEMENT TITLE: Joint Tactical Radio Systems

COST (\$ in Thousands)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
X3073 Joint Tactical Radio Systems (JTRS-M/F)	0	0	20,373	35,102	37,886	34,373	7,006	CONT	CONT
Total P.E. Cost	0	0	20,373	35,102	37,886	34,373	7,006	CONT	CONT

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION:

(U) The Joint Tactical Radio System-Maritime and Fixed Station (JTRS-M/F) provides tactical Joint interoperable UHF satellite communications. Per CJCSI 6251.01, JTRS-M/F replaces all non-compliant, mostly 1970's design radios and multiplexers, with a software programmable radio that can meet present and future requirements in a cost effective and forward thinking manner. JTRS-M/F initial baseline provides the framework for meeting the planned future SATCOM, Line of Sight (LOS) and Beyond LOS communications requirements in the 2MHz to 2 GHz spectrum. Additionally, JTRS-M/F provides for advanced higher data rate and capacity waveforms in the UHF spectrum critical to supporting the Navy IT-21 Network Centric strategy and Joint Vision 2010 and provides the radio for incorporation of the developing Advanced Narrowband System (ANS) waveform, the next generation UHF follow-on satellite constellation. The Maritime and Fixed Station JTRS (JTRS-M/F) will be evolutionary in development with Block I consisting of a modification of the Digital Modular Radio (DMR) to JTRS hardware and software compliance. JTRS-M/F Block I will meet narrowband requirements of the Navy tactical communications. JTRS-M/F Block II will be a newly developed radio that will meet both narrowband and wideband requirements.

(U) JUSTIFICATION FOR BUDGET ACTIVITY: This program is funded under OPERATIONAL SYSTEMS DEVELOPMENT because it encompasses engineering and manufacturing development for upgrade of existing, operational systems.

B. (U) PROGRAM CHANGE SUMMARY: N/A

C. (U) OTHER PROGRAM FUNDING SUMMARY: See individual projects.

D. (U) ACQUISITION STRATEGY: See individual projects.

E. (U) SCHEDULE PROFILE: See individual projects.

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Exhibit R-2a, RDT&E, N Project Justification

Date: February 2002

BUDGET ACTIVITY: 7 PROGRAM ELEMENT: 0604280N PROJECT NUMBER: X3073
PROGRAM ELEMENT TITLE: Joint Tactical Radio Systems PROJECT TITLE: JTRS

Cost (\$ in Thousands)	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	Cost to Complete	Total Cost
X3073 JTRS			20,373	35,102	37,886	34,373	7,006	CONT	CONT

A. (U) MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION

(U) The Joint Tactical Radio System-Maritime and Fixed Station (JTRS-M/F) provides tactical Joint interoperable UHF satellite communications. Per CJCSI 6251.01, JTRS-M/F replaces all non-compliant, mostly 1970's design radios and multiplexers, with a software programmable radio that can meet present and future requirements in a cost effective and forward thinking manner. JTRS-M/F initial baseline provides the framework for meeting the planned future SATCOM, Line of Sight (LOS) and Beyond LOS communications requirements in the 2MHz to 2 GHz spectrum. Additionally, JTRS-M/F provides for advanced higher data rate and capacity waveforms in the UHF spectrum critical to supporting the Navy IT-21 Network Centric strategy and Joint Vision 2010 and provides the radio for incorporation of the developing Advanced Narrowband System (ANS) waveform, the next generation UHF follow-on satellite constellation. The Maritime and Fixed Station JTRS (JTRS-M/F) will be evolutionary in development with Block I consisting of a modification of the Digital Modular Radio (DMR) to JTRS hardware and software compliance. JTRS-M/F Block I will meet narrowband requirements of the Navy tactical communications. JTRS-M/F Block II will be a newly developed radio that will meet both narrowband and wideband requirements.

FY 2001 ACCOMPLISHMENTS:

- N/A

FY 2002 PLAN:

- See Program Element 0303109N, Project Number X0731.

FY 2003 PLAN:

- (\$3,373) Complete development of contract package for JTRS-M/F Block II as the follow-on to JTRS-M/F Block I.
- (\$17,000) Complete the modification of DMR to be compliant with JTRS software architecture. The modified DMR will be renamed as JTRS-M/F Block I.

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Exhibit R-2a, RDT&E, N Project Justification

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BUDGET ACTIVITY: 7 PROGRAM ELEMENT: 0604280N PROJECT NUMBER: X3073
PROGRAM ELEMENT TITLE: Joint Tactical Radio Systems PROJECT TITLE: JTRS

B. (U) OTHER PROGRAM FUNDING SUMMARY

	<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>To Complete</u>	<u>Total Cost</u>
OM&N 4A6M - JTRS	0	0	2,813	1,851	2,087	2,123	2,187	Cont	Cont
OPN SATCOM – JTRS* 321500	0	0	2,217	56,784	74,167	121,722	120,097	Cont.	Cont.

*FY01-FY02 Other Funding Summary is reflected in Program Element 0303109N, Project Number X0731

C. (U) ACQUISITION STRATEGY:

<u>FY 2001</u>	<u>FY 2002</u>	<u>FY 2003</u>
Program Milestones: N/A		3Q Milestone B 4Q RFP Release
T&E Milestones: N/A		

D. (U) SCHEDULE PROFILE: See paragraph C.

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Exhibit R-3, RDT&E,N Project Cost Analysis

Date: February 2002

BUDGET ACTIVITY: 7

PROGRAM ELEMENT: 0604280N

PROJECT NUMBER: X3073

Cost Categories	Contract Method & Type	Performing Activity & Location	FY 00 and Prior	FY01 Cost	FY01 Award Date	FY02 Cost	FY02 Award Date	FY03 Cost	FY03 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Product Development	CPIF	GDDS	N/A	0		0		15,000	Dec-02	400	21,400	21,400
	Various	Various						2000				
Remarks:												
System T&E	Various	Various	N/A	0	N/A	0	N/A	373	Dec-02	CONT	CONT	
Remarks												
Program Management	Various	Various	N/A	0	N/A	0	N/A	3,000	Dec-02	CONT	CONT	
Remarks												
Total Cost			N/A	0	N/A	0	N/A	20,373		CONT	CONT	
Remarks												

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