





TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.

International Infantry & Joint Service Small Arms Systems Symposium, Exhibition & Firing Demonstration

Improve Your Industry Proposals by Understanding the JSSAP Competitive Proposal Evaluation Process and Tools

May 14, 2012 TECHNOLOGY DRIVEN. WARFIGHTER FOCUSED.



Agenda

- Background
- SSAP Tech Base Process
- DoD Selection Emphasis
- SSAP Selection Process Focus- Technical
- Challenge
- SSAP Technical Down-Select Process
- Technical Down-Select Process Breakout
- SSAP Technical Down-Select Evaluation Tool
- Technical Evaluation Tool Characteristic
- Technical Evaluation Criteria Example
- Example
- Conclusion
- Backup



Background



- SSAP (Joint Service Small Arms Program) is established to implement, execute and manage the material solutions approved and concurred by JSSAST (Joint Service Small Arms Synchronization Team) which compiles of Joint Service representatives to harmonize new Service materiel requirements with potential joint applications.
- JSSAP Mission:
 - Promote, coordinate and manage the exchange of information related to small arms systems technology, acquisition and sustainment
 - Maintain continuous liaison with government and civilian entities involved in small arms research, development and commodity management
- Each year, JSSAP will receive and review numerous proposals (10-20) that may provide new capabilities to the Small Arm weapons
- JSSAP must allocate its funding onto technologies that are critical and good value for the mission



JSSAP Tech Base Process



Inputs

Joint Small Arms Capability Assessment- 2006 Small Arms Capability Based Assessment – 2009/2010 Joint Service Small Arms Master Plan JSSAP Futures Conferences – 2008, 2009, 2010 National Small Arms Center – Industry Push TRADOC Gaps/Warfighter Outcomes PEO Technology Shortfalls Documented Requirements ICD/CDD/CPD Technology Information Exchanges System Integration Domains/Technology Focus Teams

Formulate JSSAP Strategy/Review/Prioritize

Transition to PM/Field – #1 Goal for all JSSAP Programs Commonality of Technologies for Affordability Collaboration/Leveraging Opportunities -OGA, Current Investments, SBIRS, CRADA, Technology, Academia, Industry Most Promising Investments

JSSAST/PM/PEO/Customer Coordination

Consolidated Prioritized List Synergy with PM Roadmaps and TRADOC Gaps Joint Service Small Arms Requirements Integratior Joint Service Small Arms Synchronization Input





DoD Selection Emphasis



Best Value is the major emphasis for DoD Source Selection

According to Federal Acquisition Regulation (FAR) 15.3, Source Selection is the "...selection of a source or sources in competitive negotiated acquisitions...The objective of source selection is to select the proposal that represents the best value [1]."



JSSAP Selection Process Focus- Technical



Basic and applied research project;Other Transaction Agreement (OTA)

RDECOM



Technical Evaluation Focused







- The performance based mandate is particularly difficult for research and development initiatives where the type, depth, sophistication, and approach of submissions to inquiries can be quite diverse. As always, funding decisions must be made in a fair, impartial, competitive, and legal way.
- JSSAP has defined
 - a robust down-select process and
 - tools that provide the fidelity and the confidence of the decision making.



JSSAP Down-Select Process







Define Evaluation Criteria

Source of criteria:

CBA Study
 R&D objectives
 Technical criteria
 Risk tolerance
 Past Performance and Lessons Learn



















- Provide evaluation template to evaluation team member
- Individual SME assessment on proposals
- Collect assessments







Compile the ratings

	Factor 1	Factor 2	Factor 3	Factor 4	Management	Reliability	Risk	system
Evaulator XX								engineering
Proposal 1	YELLOW	GREEN	YELLOW	YELLOW	YELLOW	YELLOW	RED	RED
Proposal 2	YELLOW	BLUE	RED	YELLOW	GREEN	YELLOW	RED	RED
Proposal 3	GREEN	BLUE	YELLOW	GREEN	GREEN	GREEN	RED	RED
Proposal 4	GREEN	GREEN	RED	RED	RED	RED	orange	RED
Proposal 5	BLUE	YELLOW	RED	YELLOW	YELLOW	YELLOW	RED	YELLOW
Proposal 6	BLUE	BLUE	GREEN	GREEN	BLUE	GREEN	RED	YELLOW
Proposal 7	GREEN	BLUE	GREEN	GREEN	GREEN	GREEN	RED	GREEN
Proposal 8	BLUE	BLUE	BLUE	GREEN	GREEN	YELLOW	RED	GREEN
Proposal 9	BLUE	GREEN	BLUE	YELLOW	GREEN	GREEN	RED	GREEN
Proposal 10	GREEN	YELLOW	RED	RED	RED	orange	orange	YELLOW





Check for any anomaly in the assessment result (two bands swing)

*APO- ARDEC Project Officer









Tabulate the IPT result

n

		Techr	nical					
					System			
Proposal	KPP1	КРР2	КРРЗ	КРР4	Engineering	Relibility	Risk	Management
2008 #1								
2008 #2								
2008 # 3								
2008 # 4								
2008 #5								
2008 #6								
2008 #7								
2008 #8								
2008 #9								
2008 #10								







Generate Technical Recommendation

Consolidate all proposal ratings Generate the recommendation report







Technical Down-Selection Tool



Effective selection tool for technical evaluation must:

- Better defined evaluation criteria- single question per criteria
- ✤ Higher evaluation resolution- 5 color band rating system
- Use statistical method to prioritize the proposals

Cause for Concern
Insufficient
Average
Strong
Excellent



Technical Down-Selection Tool



Evaluators provide assessment ratings for each criteria and provide comments for the ratings

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				Question 1			6	uestion 2				Que:	stion 3				
	Propos	al	Evaluate?	Does the proposal address th minimum number of pixels of target needed for tracking	• Q1 Evaluator (Comment	Does the pr percent fal froi	oposal address ti se target detectio n 0 - 600m?	n	Q2 Evaluator Commen	nt I	Does the prop time to acq tracking	osal address the uire a target (latency)?	Q3 Eva	luator Co	omment	ŀ
	(1) 666		Yes	Does Not Apply			Doe	s Not Apply	Ţ			Does N	ot Apply				
	(2) HHH		Yes	Does Not Apply			Does Not Ap No minimally add Adequately ad Fully addresse Fully addresse	b) ess dress d and partial detail d and full detail				Does N	ot Apply				
	(3) LLL		Yes	Does Not Apply			Doe	s Not Apply	*			Does N	ot Apply				
	(4) PPP		Yes	Does Not Apply			Doe	s Not Apply				Does N	ot Apply				
	(5) MMM		Yes	Does Not Apply			Doe	s Not Apply				Does N	ot Apply				
	(6) not used		Yes	Does Not Apply			Doe	s Not Apply				Does N	ot Apply				
	(?) not used		Yes	Does Not Apply			Doe	s Not Apply				Does N	ot Apply				
	(8) not used		Yes	Does Not Apply			Doe	s Not Apply				Does N	ot Apply				





- Adjustable evaluation criteria
- Precise grading control
- ✤Higher fidelity in grading (5 grade bands)
- Threshold control
- Build-in flag check (grades from SMEs cannot swing more than two bands)



Technical Evaluation Criteria Example

✤Relevance ♦ R&D objectives/metrics Payoff Potential Usage- frequency (scenario limited) ✤Specificity- weapon platform Impact- performance effect Proposal Sophistication ✤Detail Risk Aversion Approach and Experience Difficulty Assessment Current Technical Maturity ✤Overall Complexity ✤Novelty Transition Potential ✤System Engineering ✤Reliability Environmental

✤Information Security





Individual evaluator rating

Evaluator	Evaluator 01				
Proposal	Evaluate?	Question 1 Does the proposal address the Metric 1	Q1 Evaluator Comment	Question 2 Does the proposal address the Metrics 2?	Q2 Evaluator Comment
(Proposal M) Yes	Yes	Cause for Concern	No mention of pixels required for tracking.	Cause for Concern	Does not mention any false detection analysis.
(Proposal N) Yes	Yes	Adequately address	Proposal states optics will be sufficiently sized to provide target information onto the FPA, but not estimate of minimum number of pixels is given.	Adequately address	False detection rate of less than 20% for AFC ATO project for 50 to 100ft. Proposals states that prototype design will utilize FPA optics to extend range to 600m. Expect
(Proposal O) Yes	Yes	Cause for Concern	Not addressed	Cause for Concern	Not addressed
(Proposal Q) Yes	Yes	Adequately address	Proposal states that this will be determined in Phase I of the proposal. Hoever, no estimate is given for this question. This shows that he target	Adequately address	Value of 80% positive identifications apprears to come straight out of the metrics (missed moving targets). No apparent analysis was done on this
(Proposal R) Yes	Yes	Fully addressed and full detail	Thorough analysis provided	Fully addressed and full detail	Thorough analysis given. False target detection well below 20%, as needed to achieve less than 20% missed moving targets







The evaluator's rating transitioned to color code from the evaluation sheet

		Evalua	ator 1	Q1	Q2		Q3	Q4	Q5	Q6	5	Q7	Q8		Q9	Q10		Q11	Q12	C)13	Q14	(Q15	Q16	Q17	
		Propo	osal M	RED	R	ED	RED	YELLOW	RE	D	RED	RED	R	ED	RED	ora	inge	RED	RE	D	RED	RE	D	RED	RED	RE	D
		Prop	osal N	YELLOV	N YEL	LOW	GREEN	GREEN	BLU	IE E	BLUE	BLUE	BL	.UE	BLUE	GRI	EEN	GREEN	BLU	JE	BLUE	RE	D	GREEN	BLUE	GRE	EN
		Propo	osal O	RED	R	ED	RED	orange	RE	D	RED	RED	R	ED	RED	RI	ED	RED	RE	D	RED	RE	D	RED	RED	RE	D
	Evalu	Propo	osal Q	YELLOV	<mark>v</mark> GR	EEN	BLUE	GREEN	BLU	IE G	GREEN	GREEN	I YEL	LOW	GREEN	I YELI	LOW	GREEN	GRE	EN	BLUE	BLU	IE	GREEN	BLUE	BLU	JE
	Propo	Prop	osal R	BLUE	BL	.UE	GREEN	BLUE	BLU	IE E	BLUE	GREEN	YEL	LOW	YELLOV	V BL	UE	GREEN	BLU	JE	BLUE	GRE	EN	BLUE	BLUE	BLU	JE
	Propo	osal N	BLU	E B	LUE	BLU	E GRE	EN YEL	LOW	BLUE	BL	JE E	BLUE	GRE	EN Y	ELLOW	BL	UE	BLUE	GRE	EN	GREEN	BL	UE	BLUE	BLUE	
	Propo	osal O	RED) F	RED	RED) RE	D R	ED	orange	RE	D	RED	RE	D	RED	YELI	LOW	RED	RE	D	RED	R	ED	RED	RED	
valu	Propo	osal Q	YELLO	W GF	REEN	BLU	E BL	JE BI	.UE	BLUE	BL	JE E	BLUE	YELL	.0W	RED	BL	UE	RED	RE	D	BLUE	GRI	EEN	BLUE	BLUE	
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Propo	sal N	YELLO	W	RED	YELLO	W	RED	RED	GREE	N GF	REEN	BLUE	BL	ÜE	RÉD	BL	LUE	GREEN	I R	ED	REI) F	ED	BLUE	BL	UE	
Propo	sal O	RED		RED	RED)	RED	RED	RED	F	RED	orange	R	ED	RED	R	ED	RED	R	ED	REI	D F	ED	RED	R	ED	
Propo	sal Q	YELLO	W YE	LLOW	GREE	N C	GREEN	BLUE	BLUE	B	LUE	RED	GR	EEN	RED	R	ED	RED	YEL	LOW	REI	D F	ED	BLUE	BL	UE	
Propo	osal R	BLUI		BLUE	BLUE	E (GREEN	GREEN	BLUE	B	LUE	RED	ora	inge	BLUE	YEL	LOW	BLUE	B	.UE	YELLO	OW YEL	LOW	BLUE	BL	UE	







OCUSED

•Evaluator ratings compiled for each proposal

	1	VELLOW	VELLOW	VELLOW/	VELLOW/	VELLOW/	VELLOW/	RED	VELLOW/	VELLOW/	orange
	2	GREEN	GREEN	VELLOW	orange	orange	orange	VELLOW	RED	orange	
	2			GREEN	VELLOW		VELLOW	VELLOW	VELLOW	VELLOW	VELLOW
	3			GREEN	YELLOW	YELLOW	YELLOW	YELLOW	TELLOW	YELLOW	
	4	GREEN	BLUE	GREEN	YELLOW	YELLOW	YELLOW	YELLOW	orange	YELLOW	GREEN
	5	BLUE	BLUE	BLUE	GREEN	YELLOW	GREEN	YELLOW	orange	GREEN	GREEN
	6	GREEN	BLUE	BLUE	GREEN	GREEN	GREEN	YELLOW	orange	GREEN	YELLOW
	7	GREEN	BLUE	BLUE	GREEN	GREEN	GREEN	RED	orange	GREEN	GREEN
	8	YELLOW	B KUE	RED	GREEN	GREEN	GREEN	RED	orange	GREEN	YELLOW
Proposal Q	9	GREEN	YE LOW	GREEN	YELLOW	YELLOW	YELLOW	RED	RED	YELLOW	RED
	10	YELLOW	RED	RED	RED	RED	RED	RED	RED	RED	RED
	11	GREEN	BLUE	RED	YELLOW	YELLOW	GREEN	orange	RED	YELLOW	YELLOW
	12	GREEN	RED	RED	YELLOW	YELLOW	YELLOW	RED	orange	YELLOW	YELLOW
	13	BLUE	RED	YELLOW	YELLOW	GREEN	YELLOW	YELLOW	RED	YELLOW	GREEN
	14	BLUE	BLUE	RED	YELLOW	YELLOW	YELLOW	YELLOW	RED	YELLOW	GREEN
	15	GREEN	GREEN	RED	YELLOW	YELLOW	YELLOW	GREEN	RED	YELLOW	YELLOW
	16	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE
	17	BLUE	LUE	BLUE	BLUE	BLUE	BLUE	GREEN	BLUE	BLUE	GREEN

When there is more than two band swing in the ratings, APO/IPT review will be initiated





Scores roll up to team rating

	1	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	RED	YELLOW	YELLOW	orange	YELLOW
	2	GREEN	GREEN	YELLOW	orange	orange	orange	YELLOW	RED	orange	YELLOW	YELLOW
	3	BLUE	BLUE	GREEN	YELLOW							
	4	GREEN	BLUE	GREEN	YELLOW	YELLOW	YELLOW	YELLOW	orange	YELLOW	GREEN	GREEN
	5	BLUE	BLUE	BLUE	GREEN	YELLOW	GREEN	YELLOW	orange	GREEN	GREEN	GREEN
	6	GREEN	BLUE	BLUE	GREEN	GREEN	GREEN	YELLOW	orange	GREEN	YELLOW	GREEN
	7	GREEN	BLUE	BLUE	GREEN	GREEN	GREEN	RED	orange	GREEN	GREEN	GREEN
	8	YELLOW	BLUE	RED	GREEN	GREEN	GREEN	RED	orange	GREEN	YELLOW	YELLOW
Proposal Q	9	GREEN	YELLOW	GREEN	YELLOW	YELLOW	YELLOW	RED	RED	YELLOW	RED	YELLOW
	10	YELLOW	RED									
	11	GREEN	BLUE	RED	YELLOW	YELLOW	GREEN	orange	RED	YELLOW	YELLOW	YELLOW
	12	GREEN	RED	RED	YELLOW	YELLOW	YELLOW	RED	orange	YELLOW	YELLOW	YELLOW
	13	BLUE	RED	YELLOW	YELLOW	GREEN	YELLOW	YELLOW	RED	YELLOW	GREEN	YELLOW
	14	BLUE	BLUE	RED	YELLOW	YELLOW	YELLOW	YELLOW	RED	YELLOW	GREEN	YELLOW
	15	GREEN	GREEN	RED	YELLOW	YELLOW	YELLOW	GREEN	RED	YELLOW	YELLOW	YELLOW
	16	BLUE										
	17	BLUE	BLUE	BLUE	BLUE	BLUE	BLUE	GREEN	BLUE	BLUE	GREEN	BLUE









Consolidated team rating

	Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15	Q16	Q17
Proposal M	RED	orange	RED	RED	RED	YELLOW	RED	RED	orange	RED	RED	RED	RED	YELLOW	RED	RED	RED
Proposal N	YELLOW	YELLOW	GREEN	RED	YELLOW	GREEN	GREEN	GREEN	GREEN	orange	YELLOW	GREEN	YELLOW	YELLOW	GREEN	BLUE	GREEN
Proposal O	RED	RED	RED	RED	RED	YELLOW	RED	RED	RED	orange	orange	RED	RED	RED	RED	RED	RED
Proposal Q	YELLOW	YELLOW	YELLOW	GREEN	GREEN	GREEN	GREEN	YELLOW	YELLOW	RED	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW	BLUE	BLUE
Proposal R	BLUE	BLUE	GREEN	GREEN	GREEN	BLUE	GREEN	BLUE	YELLOW	BLUE	BLUE	GREEN	BLUE	GREEN	GREEN	BLUE	BLUE

Recommendation is based on the consolidated rating and final analysis



Conclusion



The JSSAP Down Select Process is a well-rounded application:It is subjectiveIt is flexible and tailorable

•It is comprehensive





Back up Slides



Applicability



These procedures (FAR Part 15) are not required for the following acquisitions:

- · Competitions where the only evaluated factor is price
- Basic research and acquisitions where Broad Agency Announcements (BAA) are used in accordance with FAR Part 35 to solicit proposals and award contracts,
- Small Business Innovative Research (SBIR), Small Business Technology Transfer Research (STTR) and Small Business Technology Transfer (SBTT) acquisitions solicited and awarded in accordance with 15 United States Code (U.S.C.), Section 638.
- Architect-engineer services solicited and awarded in accordance with FAR Part 36,
- FAR Part 12 Streamlined Acquisitions,
- Acquisitions using simplified acquisition procedures in accordance with FAR Part 13 (including Part 12 acquisitions using Part 13 procedures),
- Orders under multiple award contracts Fair Opportunity (FAR 16.505 (b)(1)), and
- Acquisitions using FAR subpart 8.4.