

Question #	Source Document	Paragraph	Question	Answer
1	Draft RFS		Is there interest in novel chip-scale front-end prototyping solution?	OUSD cannot provide a response to this question at this time.
2	Draft RFS		VIDA Products has developed YIG based RFIC capability that will obsolete present day high frequency (2 to 40GHz) radio design within 5 years. This is due to the tunability, ~5000Q resonator realization, and practically 0 phase distortion for both signal sources and filters. We have built and tested proof of concept and are currently contracted Dept of Energy to deliver hardware. VIDA is a small high tech company that is not able to perform the functions of a prime but believe that we could be the basis of a new radio architecture that will fulfil the purpose of this Program (IB5G). Is there any parallel effort to avoid obsolescence before completion of this program?	OUSD cannot provide a response to this question at this time.
3	Draft RFS		As a non-traditional defense contractor, we currently do not possess a SECRET facility clearance. If our solution is selected for award, would the government consider sponsoring us for the requisite facility clearance? Our team consists of another non-traditional defense contractor who also does not possess a SECRET facility clearance. All team members (iCallidus Inc. (Prime), and incNetworks Inc) are 100% US-owned, located, and operated. iCallidus is a prime contractor with several US federal government agencies.	If your solution is accepted, the Government will make a decision at that time.
4	Draft RFS		The draft RFS makes mention of PEO-STRI (eg" All vendors who want to compete, bid, or team with others for this effort must be willing to comply with the PEO STRI Security Process for Vetting."). What is PEO-STRI's role in this solicitation ? Will they be driving the execution of the OTA technical objectives and overseeing performer delivery?	PEO STRI will not serve as a Project Management or Technical Advisory role on their effort. They are owners of the Consortium (w/ ACC as contracting support), and the Government customer (AOR) will be their direct link to performance monitoring and acceptance of deliverables.
5	Draft RFS		Question 1: It is important to note, the entire 5-year prototype project has a maximum ceiling budget of \$13,700,000 per technical area. The government anticipates up to \$12,000,000 of available funding for the first year of this project, beginning in Fiscal Year (FY) 2022. Does this mean there is 13.7M spread between all awards and all phases? Or 12M per phase for all awards? Question 2: "Note: It is expected that the vendor may need to conduct multiple iterations of Phases 1 – 3 to develop the Beyond 5G prototypes to achieve the desired outcomes. Subsequent iterations shall be mutually agreed upon by the Government and the Vendor. " 1. Does this mean we should focus most of our proposal and plan for phase 1? Question 3: Tech Area 2: Phase 1 Tech. Objective: "Finalize set of enhancements to sidelink for enablement of terrestrial/airborne network integration;" Is "sidelink" an example technology or a requirement?	Up to \$13,700,000 is available for each of the two technical areas (or \$27,400,000 for the project) in total, across all years/phases. This total would be spread across all awards. The actual amount of funding awarded will depend upon the number of proposals that are selected. The government anticipates that up to \$12,000,000 will be awarded in FY22, which would be spread across both technical areas and all awards.

6	Draft RFS	The documentation states Under Sec of Def Research, but is this for Space Force or all of DoD? Thank you.	This program is under the Innovate Beyond 5G branch of OUSD-R&E 5G. The official DoD branch is called the "Office of the Undersecretary of Defense." This program is not under the space force.
7	Project TalX	From the figure, it seems that there is a vehicle gNB within each squad. Is this the correct understanding?	Yes this is what is depicted in the figures on many of the slides wherever there is a squad shown. However, please note this is notional simply to show that the UE's are within a gNB coverage, so the grouping could be anything. Note we are seeking innovative design ideas around these concepts, and that the RFS is not intended to give a specific deep level set of requirements like engineers are accustomed to; see the earlier slides that depict the types of D-MIMO connection that are possible. The concepts are deliberately broad to avoid leading to any particular solutions.
8	Project TalX	3GPP standards process requires membership in 3GPP partner. will gov provide that?	The ProjectTalx presented that you may be asked to support any 3gpp processes; so you are not required to be a member to propose to the RFS.
9	Project TalX	Is the bidding in each phase CPFF or FFP or any other ?	The agreement will be FFP only.
10	Project TalX	Will the final RFS specify the exemptions to the FOCI requirement?	NA
11	Project TalX	Are you able to share how much funding is available and how many proposals will be selected for each Phase?	Up to \$13,700,000 is available for each of the two technical areas (or \$27,400,000 for the project) in total, across all years/phases. This total would be spread across all awards. The actual amount of funding awarded will depend upon the number of proposals that are selected. The government anticipates that up to \$12,000,000 will be awarded in FY22, which would be spread across both technical areas and all awards.
12	Project TalX	Who will be the end client to monitor OTA execution and contractor performance?	OUSD will oversee the project.
13	Project TalX	Would an extension to the due date be considered if the Gov't doesn't provide answers to tech questions in a timely manner?	OUSD does not intend on offering any additional extensions at this time.
14	Project TalX	will OUSD R&E be running the experiment or will there be a mission partner brought in to assist?	OUSD will oversee the project.
15	Project TalX	The draft RFS states the technical section is to be 12 pages @ 12 point. It seems unlikely the technical depth required to demonstrate competency can be addressed in 12 pages. How can proposers demonstrate understanding with so little space? 12 pages are allotted to cover: experience, project management, data rights, delivery schedule, IMS in addition to the technical content.	This is an inaccurate synopsis of the page limits. Vendors should refer to the chart on page 4 of the RFS which clarifies that data rights, delivery schedule, and IMS do not count towards the page limit.
16	Project TalX	There is language in the RFS that indicates one submission per team. If my group teams with company A and another group within my company teams with company B, are those each considered a unique team and each allowed to submit	Yes.
17	Project TalX	Four research challenges were proposed; 1) how many performers are anticipated for this Technical Area?	OUSD believes that responding to this question could jeopardize the integrity of the proposals.
18	Project TalX	are the phases for task area #2 the same as for task area #1, 1 year per phase?	Yes.

19	Project TalX		does each proposal need to include scope to address all challenge areas discussed or are partial solutions acceptable?	Please refer to the RFS and the ProjectTalx for what is mandatory and what is optional.
20	Draft RFS		<p>Question 1: Response to this fixed price opportunity with BOEs and along with ROMs for production and sustainment in the allotted time is a significant challenge. Is an extension until at least Friday 7/3 a possibility?</p> <p>Question 2: Section 5.4.2 of the RFS requests a ROM for follow on production and for sustainment. However, without an understanding of the end user service branch, number of systems, global deployment locations , etc. a ROM is nearly impossible to scope. Can 5.4.2 be changed to simply request a characterization of costs potentially associated with producing and sustaining a system?</p> <p>Question 3: Section 7.3 of the RFS discusses a IB5G effort duration of 36 months however 7.4 states a 5-year prototype project. can you clarify if the expected projected duration is 5 years or 3?</p>	<p>Question 1: NA at this point in time.</p> <p>Question 2: Yes this is acceptable. Please note that the RFS states, "The Government will not evaluate vendor submissions related to sustainment and follow-on activities."</p> <p>Question 3: Expected duration is 3 years.</p>
21	RFS		The IB5G RFS states the following with respect to funding: 7.4 Cost and Pricing Breakdown It is important to note, the entire 5-year prototype project has a maximum ceiling budget of \$13,700,000 per technical area. The government anticipates up to \$12,000,000 of available funding for the first year of this project, beginning in Fiscal Year (FY) 2022. Is the \$13,700,000 the funding per award or for all awards in a given technical area?	The funding indicated applies to all awards in a given technical area.
22	Draft RFS		In the draft RFS under Technical Area 2 the Draft RFS refers to multiple, optional areas of exemplar research and during the industry day it was stated that this topic is broadly open and any enumerated specific technologies/approaches should only be taken as possible examples. However in the Phase 1 technical objective it explicitly requires development of a set of enhancements to sidelink. Is sidelink enhancement a requirement or are other approaches/configurations/technologies allowed to enable the desired CONOPS?	The intent is for the enhancement to be Device to Device, or Sidelink. In other words it can be Sidelink or any other form of direct device to device communications.
23	RFS	5.3.5.2	"Further, the airborne node can be implemented in various configurations" Can this be on LEO Satellite(s)?	Yes it can; of course operational hurdles would need to be addressed, for example the very high doppler shift associated with LEO's.
24	RFS	5.3.5.2	If Satellite is include, can Phase 1 Demo be in the lab with simulated satellite environment?	Per the RFS, Phase I in both technical areas will involve a study, design, and simulation(s), so yes this is true for any proposal.
25	RFS	5.3.5.2	What is the period of performance for Technical Area 2? Should we be using the Period of Performance from Technical Area 1, 1 year per Phase for a total of 3 years? (It is anticipated that the prototype will go through each of the three (3) phases over a respective 12-month period of performance.)	Please reference response above.

26	RFS	5.3.5.2	Can we use a private terrestrial 5G network testbed?	Use of a private terrestrial 5G testbed is acceptable under the condition that the performer is willing to conduct demonstrations open to government attendance, be transparent about test procedures, and provide results/data, etc., per the proposed SoW.
27	RFS	Section 4.1	Section 4.1 references the steps required (Attachment 7 - Vendrod Self Vetting Form and Attachment 6 - GFI Tech Data Distribution Agreement) to request GFI: however, the RFS and/or proposal package does not include any reference to GFI as part of the RFS response. Can the Government clarify the what GFI section 4.1 is referencing?	Correct, there is no GFI currently available. There is a possibility that GFI will become available later in the evaluation process. Vendors can preemptively submit the form, or submit it later when/ if the GFI becomes available.
28	RFS	Section 5.3.5.1	Can the Government clarify the organization and application driving the intra and inter-squad and squad-to-command post (CP) communications baseline network topology (Table 1) and Key Objectives (Table 2) for Technical Area 1?	OUSD cannot specify this level of detail.
29	RFS	Section 5.3.5.1	Can the Government provide the location and government organization supporting the on-premises demo to be conducted for Technical Area 1 Phase 3 demos?	Not at this time.
30	RFS	Section 5.3.5.1	Can the Government provide details of the Phase 1 and 2 criteria to assess vendors for downselect to the subsequent phase? Will these be consistent for all Phase 1 and 2 awardees?	This has not been determined.
31	RFS	Section 5.3.5.2	Can the Government clarify the organization and application driving the Integrated Tactical Communication Networks KPPs and design objectives (Table 6) for Technical Area 2?	OUSD cannot specify this level of detail.
32	RFS	Section 5.3.5.2	Can the Government provide the location and the government organization supporting the on-premises demo to be conducted for Technical Area 2 Phase 3 demos?	Not at this time.
33	RFS	Section 5.3.5.2, Phase 1 Technical Objective, page 18	The Technical Area 2, Phase 1 objective states "Finalize set of enhancements to sidelink for enablement of terrestrial / airborne network integration." Are bidders restricted to strictly Sidelink or is the Government open to Phase 1 focusing on non-Sidelink device-to-device protocols, to include proprietary technology?	Please refer to response above.
34	RFS	Section 7.4	Section 7.4 references the "the entire 5-year prototype project" when communicating the maximum ceiling budget of \$13.7M per technical area. Can the Government confirm the intent of the 5-year reference or whether is was intended to be 3 years to align with the period of performance that will be bid?	Up to \$13,700,000 is available for each of the two technical areas (or \$27,400,000 for the project) in total, across all years/phases. This total would be spread across all awards. The actual amount of funding awarded will depend upon the number of proposals that are selected. The government anticipates that up to \$12,000,000 will be awarded in FY22, which would be spread across both technical areas and all awards.
35	RFS	Section 7.4	Can the Government confirm whether the referenced maximum ceiling budget of \$13.7M per technical area is per awardee or total for all the awardees?	The funding indicated applies to all awards in a given technical area.
36	RFS	Section 7.4	Can the Government confirm that the anticipated \$12M of funding for the first year of the project is the total amount to be allocated for all potential Phase 1 awardees?	The funding indicated applies to all awards in a given technical area.

37	RFS	5.3.5.1, page 11	What are the target data applications that will require low latency? What is the expected end-to-end latency (sub 1 msec, sub 10 msec, etc.)?	There is no specific latency requirement; however Latency is one of many key performance areas in which consideration and trade-offs should be considered for balanced performance in all KPI areas. We cannot provide specific details of target data applications, so just assume it is a mix.
38	RFS	5.3.5.1, page 11	For multi-hop relay, what is the target range for end-to-end latency (sub 1 msec, sub 10 msec, etc.)? Also what is the target number of hops?	There are no specific requirements at this time.
39	RFS	5.3.5.1, page 8; and 5.3.5.2	What is the expected maximum speed of the distributed nodes? For instance, in a use case of dismounted soldiers?	There is no specific speed requirement, therefore your solution may or may not assume motion of the D-MIMO nodes.
40	RFS	5.3.5.1, page 9	In interference scenarios, what are target values/ranges for - the number of interferers, power levels, bandwidth (wideband, narrowband, etc.), type (RF jammer, protocol jammer, etc.), duty cycle?	The RFS is looking to evaluate the performance of this and other parameters - the intent is not to have specific requirements.
41	RFS	5.3.5.1, page 9	For cluster formation, what are target values/ranges for rate of convergence, number of nodes, node density, dynamic behavior (how often do nodes leave/enter the cluster)?	The RFS is looking to evaluate the performance of this and other parameters - the intent is not to have specific requirements.
42	RFS	5.3.5.2, page 14	For sidelink communication, what is preferred, in-band or out-of-band? For out-of-band, is it licensed or unlicensed (such as ISM)?	OUSD cannot provide a response to this question at this time.
43	RFS	7.4, page 24	The RFS mentions maximum ceiling budget of \$13.7 M per technical area, and \$12 M for the first year budget. Is this per selected performer?	Up to \$13,700,000 is available for each of the two technical areas (or \$27,400,000 for the project) in total, across all years/phases. This total would be spread across all awards. The actual amount of funding awarded will depend upon the number of proposals that are selected. The government anticipates that up to \$12,000,000 will be awarded in FY22, which would be spread across both technical areas and all awards.
44	RFS	5.3.5.2	What is the expected Technology Readiness Level (TRL) of the proposed solution, at the conclusion of each phase of the effort?	Phase I,II TRL2/3 --> TRL 3/4; Phase III end: TRL 5
45	RFS	6.1	How many awards does the Government anticipate awarding under each technical area?	OUSD cannot provide a response to this question at this time.
46	RFS	7.3	What is the expected duration of the total IB5G effort? 5 years (as stated in 7.4) or 36 months (as stated in 7.3)	36 months
47	RFS	7.3	What production quantities, timeline and start date should vendors assume for the follow-on production ROM pricing?	N/A
48	RFS	7.4	What is the expected duration of each phase within the total IB5G effort?	12 months
49	RFS	7.4	What is the expected award date for phase 1 solutions?	OUSD cannot provide a response to this question at this time.