

JUSTIFICATION FOR SOLE SOURCE/BRAND NAME SOLE SOURCE <\$150K

PLEASE FILL IN ALL APPLICABLE BLOCKS BELOW.
A NARRATIVE MUST BE ADDED TO ALL APPLICABLE SECTIONS.

PO Number:			
The effort listed on this form is for: (please mark one):	<input checked="" type="checkbox"/> Supply	<input type="checkbox"/> Service	
The material and/or service listed on this form is (please mark one):	<input type="checkbox"/> Sole Source	<input checked="" type="checkbox"/> Brand Name	

Restricted to the following source or manufacturer:

- Manufacturer/Source: Range Networks
- POC and Phone Number: No POC / 415-778-8700
- Address: 2040 Martin Ave., Santa Clara, CA 95050

Description of the item(s) or service(s) required and the estimated cost(s):

Item#	MFG Name	MFG Part#	Description	Qty	U/I	Unit Price	Ext Price
1	Range Networks		2U 1W 900MHz OpenBTS OpenCell	1			\$18,000
			Cell Phone Base Station System				

*** If additional items are required, please provide on a separate spreadsheet

1. List the Required Delivery Date (RDD) or Period of Performance (POP):

Required delivery date is 9/25/15. This research is part of a large multi-year effort with a period of performance ending 9/30/2016. However, the funds being used to make this purchase expire 9/30/2015. The sponsor has stated they are continuing to fund this research for FY2016 but the FY2016 funds will not be available until Q2FY2016.

*** If additional space is required, please attach a continuation sheet.

2. Specify characteristics of the material or service that limit the availability to a sole source/brand product (unique features, function of the item, etc.). Describe in detail why only this source/brand can furnish the requirements to the exclusion of other sources/brands.

With the exception of Range Networks, all companies we have found that make cell phone base station equipment, such as Alcatel, Ericsson, Lucent, Nokia, Nortel, etc., use 100% proprietary hardware and software, or at least mostly proprietary hardware and software. This makes it impossible to investigate how the equipment functions internally and it also makes it impossible to conduct laboratory experiments involving new hardware and software technology. Range Networks is the only manufacturer that has been found that makes cell phone base station equipment that utilizes both open source hardware and open source software. This will allow our experimental research to progress as we will be able to study the internal workings of both the hardware and software and be able to experiment with new cell phone technologies. Furthermore, because the hardware and software manufactured by Range Networks is open source, the cost of their systems is much less. If functionally equivalent equipment were purchased from a company such as Alcatel or Ericsson or Lucent, the cost would be 3 to 5 times greater.

3. Indicate if the requested material or service represents the minimum requirements of the Government.

The required technical specifications that have been provided represent the minimum technical capabilities that are required for this research program.

4. Indicate if the material or service must be compatible in all aspects (form, fit, and function) with existing systems presently installed/performing. Describe the equipment/function you have now and how the new item/service must coordinate, connect or interface with the existing system.

Not applicable, equipment being purchased is not for use with any presently existing or installed equipment or system.

5. Does a patent, copyright or proprietary data limit competition?

One of the main reasons why Range Networks has been specified as the desired manufacturer is because, as far as the principal investigator has been able to determine, it is the only manufacturer that is NOT using proprietary, patented, and copyrighted hardware and software. It turns out that Range Networks also has the lowest price.

*** If additional space is required, please attach a continuation sheet.

6. Are the items "direct replacement" parts/components for existing equipment? If so, provide the information about the Next Higher Assembly (NHA)/equipment which the replacement parts are going into (e.g., description, model, part number, Original Equipment Manufacturer (OEM), etc.).

The system being ordered is not a replacement for parts or components for presently existing equipment.

7. Provide any additional information to support a sole source/brand name sole source procurement. The rationale must justify "either" substantial duplication of cost to the Government that is not recovered through competition or unacceptable delays in fulfilling the mission of the agency.

*** If additional space is required, please attach a continuation sheet.

TECHNICAL OR REQUIREMENTS CERTIFICATION

I CERTIFY THAT THE STATEMENTS CHECKED, AND INFORMATION PROVIDED ABOVE ARE COMPLETE AND CORRECT TO THE BEST OF MY KNOWLEDGE. I UNDERSTAND THAT THE PROCESSING OF THIS SOLE SOURCE/BRAND NAME SOLE SOURCE JUSTIFICATION PRECLUDES THE USE OF FULL AND OPEN COMPETITION.

Printed Name: Douglas J. Fouts	Signature: 
Title: Professor	Date: 1 July 2015

CONTRACTING OFFICER APPROVAL:

Printed Name: Patricia M. Hirsch Contracting Officer	Signature: 
Title:	Date: 8/3/2015