

June 10, 2015

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
GLENN RESEARCH CENTER (GRC)  
CLEVELAND, OHIO**

**JUSTIFICATION FOR OTHER THAN FULL AND OPEN COMPETITION  
OHIO UNIVERSITY**

**PR 4200553934**

**I. Description of Requirement**

I recommend that GRC negotiate only with Ohio University for providing the support of the NASA Delay Tolerant Networking (DTN) code base known as ION (Interplanetary Overlay Network). The support services include the secure distribution, version control, software testing, documentation, and support of the ION code base. This support is required by NASA in order to maintain the unique services necessary for the ongoing development of the ION code base. The period of performance is 1 year guaranteed with 4 optional years for a maximum of 5 years. The total value per year is \$50,000. The maximum value of the procurement is \$250,000.

**II. Statutory Basis for Other Than Full and Open Competition**

The statutory authority permitting other than full and open competition is 10 U.S.C. 2304(c)(1), the property or services needed by the agency are available from only one responsible source or only from a limited number of responsible sources and no other type of property or services will satisfy the needs of the agency.

**III. Rationale In Support of Statutory Authority**

The rationale in support of using 10 U.S.C. 2304(c)(1) is that Ohio University has been providing this service for five years, originally under Grant Number NNX09AD87G and most recently under PO NNC12VE58P, and has intimate experience with the NASA ION code base and its unique support requirements. Ohio University currently maintains, under PO NNC12VE58P, the existing automated build and test environment for the code that has been validated by the NASA DTN Project, maintains the secure code distribution servers and provides support services and documentation for the ION releases. PO NNC12VE58P expired May 31, 2015 and NASA must maintain

the relationship with Ohio University because of their expertise in the ION implementation. The current proposed effort is exclusively for services.

#### **IV. Description and Results of Market Research**

Only Ohio University has the necessary experience in maintaining and documenting the different branches of the ION code base to provide the required support services without a significant break in services provided to the agency based upon their unique knowledge gained under Grant Number NNX09AD87G and PO NNC12VE58P.

There is no other known generic IT services provider that has the necessary familiarity with the ION DTN reference implementation so it would require that NASA spend a significant amount of additional resources, beyond what is available to support this service, to train a new IT services provider as a replacement capable of providing the required ION maintenance service. This would cause an unacceptable financial burden upon the project and create an enormous lapse in support that would jeopardize the project's milestones.

#### **V. Determination of Fair and Reasonable Cost**

The vendor will be required to submit a proposal to be evaluated by the Contracting Officer and technical personnel, with support from internal Price Analysts and external organizations (e.g. DCAA, DCMA) as needed. The guidance and techniques specified at FAR 15.404 and NFS 1815.404 will be followed during the proposal evaluation. If appropriate, price analysis and technical analysis per FAR 15.404-1(b) and (e), and NFS 1815.404-1(e) will be performed to determine and negotiate a fair and reasonable price. If price analysis is not appropriate, then cost analysis and technical analysis, per FAR 15.404-1(c) and (e), and NFS 1815.404-1(e) will be performed to determine and negotiate a fair and reasonable price.

#### **VI. Actions to Remove or Overcome Barriers to Competition**

No action can reasonably be taken to overcome the barriers to competition as the provider offers unique capabilities in support of the NASA DTN code base that would be difficult and unreasonable to attempt to recreate with another provider with the limited resources available to the project. Recreating the capabilities of the provider would enact a significant burden upon the project both financially and from a schedule standpoint.



National  
Aeronautics and  
Space  
Administration

**Justification for Other Than Full and Open Competition/  
Justification for an Exception to Fair Opportunity**  
(Certifications, Reviews, Concurrences, and Approval)  
**NASA Glenn Research Center**

Title of Procurement Supporting the NASA Delay Tolerant Network (DTN) Code Base Interplanetary Overlay Network (ION)	Purchase Request No. 4200553934
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**Certifications**

1. I hereby certify that the attached Justification and its supporting data are accurate and complete.

Signature of Procurement Initiator <i>Amy McNelis</i>	Name (Type or print) Amy McNelis	Date 06/10/2015
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2. I hereby certify that the attached Justification is accurate and complete to the best of my knowledge and belief, and I have determined that the anticipated cost to the Government for this procurement will be fair and reasonable.

Signature of Contracting Officer for the Procurement <i>Kurt A. Straub</i>	Name (Type or print) Kurt Straub/Branch Chief	Date 6/24/15
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**Concurrences**

Title and Name (Type or print)	Signature	Date
Title and Name (Type or print)	Signature	Date
Title and Name (Type or print)	Signature	Date
Title and Name (Type or print)	Signature	Date
Title and Name (Type or print)	Signature	Date

**Approval**

Title and Name (Type or print)	Signature	Date
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Remarks