

**SOLE SOURCE JUSTIFICATION AND APPROVAL FOR ACQUISITION UNDER
THE SIMPLIFIED ACQUISITION THRESHOLD**

1. Contracting Agency and Activity. The Department of the Interior, United States Geological Survey Reston Acquisition Branch, Reston, VA, plans to contract on a sole source basis. This document sets forth the justification and approval as required by FAR 13.106-1(b)(1) "Only One Source Reasonably Available"

2. Nature of Action Being Approved. This requirement is for a firm fixed price award to IHS Global Inc. (formerly Seismic Micro-Technology, Inc), for IHS Global Inc. software maintenance for 17 USGS owned IHS Global Inc. software licenses. This contract is for date of award through 12 months.

This is a follow on order to the following purchase orders: G15PX00858, G14PX01448, G13PX01533, G12PX00094, G12PX00948, and G12PX01254.

3. Description of Supplies or Services. The USGS - Woods Hole Coastal & Marine Science Center (WHCMSC) requires Kingdom Suite software support and maintenance for several USGS offices currently holding IHS Global Inc. software licenses.

The Kingdom Suite software maintenance will allow the USGS scientists the necessary support to continue to view, in proper geodesic space, the data that we collect in our field projects as well as the data provided to us by our collaborators. In addition, the software support and maintenance will allow us to continue to create geologic interpretations, accurate depth sections, and other deliverable scientific products that are needed for our projects. Because the software is used across the USGS, by using the same software we are able to easily share our data, interpreted products, and technological knowledge.

4. Estimated Dollar Value. The estimated dollar amount of this requirement is \$165,301.50.

5. Statutory Authority. The proposed action may be awarded on a sole source basis in accordance with: FAR 13.106-1(b)(1) "Only One Source Reasonably Available"

6. Rationale Supporting Use of Citation in No. 5.

The Kingdom Suite software is the only MS Windows software capable of loading and displaying standard SEG-Y seismic data format data at very high sample rates for the purpose of analysis, interpretation and digitization. The Windows platform allows us to leverage the increased speed of 64-bit, which is helpful given the large size of the data files we work with. While Macs can (just now) run as 64-bit machines, it is via Windows set as a virtual machine; there is no Mac version of this software.

IHS Global Inc. is the exclusive provider and licensor for 2d/3dPAK Advanced software and maintenance. They maintain sole proprietary rights to the creation, development, distribution,

and maintenance for this software, and there are no other authorized distributors available. There are no resellers in the marketplace.

As of right now, the USGS has approximately \$150,000/year invested in this software and software updates. The initial purchase cost is significantly more.

This software is already used in multiple offices, allowing us to shift work loads and project needs amongst staff in different centers, and share data across the country. These offices have already purchased the IHS software and this requirement is for IHS to provide maintenance on our existing USGS- owned software. There is no authorized re-seller for IHS software maintenance.

In addition to the reasons stated above, this software package is unique in its ability to display georeferenced images without requiring additional software and licenses. Additional benefits include easy scalability of software modules, from basic to advanced functions depending upon the needs of a project.

7. Other Information. The software is widely used across multiple USGS locations (Woods Hole, Menlo Park, Denver, St. Petersburg, and Alaska) and facilitates sharing of seismic databases between Programs (e.g., Energy and Coastal and Marine Geology) and projects (e.g., Law of the Sea, Gas Hydrates, and Marine Hazards).

Many hours have been spent in developing interpretations and information products as part of our project – all within this software package. Much USGS raw data has already been processed via IHS Global Inc. 2d/3d software. We must retain maintenance for this software so we can continue managing the data, and so that any USGS scientist using this software can exchange, share, and work on data with other USGS scientists, thereby maintaining a continuity of our interpretations and data deliverables.

8. The Efforts to Identify Additional Sources Including the Market Research Conducted.

Other seismic interpretation packages, such as Landmark Graphics' SeisWorks and SeisVision were used in the past, but these products are no longer an option because the software stopped meeting Federal IT requirements, and the vendor no longer offers their products or maintenance to federally funded customers.

Buying a new software package/license as opposed to buying maintenance on our existing software would increase costs, decrease efficiency (re-training employees), and create a massive data rescue need to convert data that has been created/saved using IHS software over to a new software.

9. Future Plans to Permit Competition. The WHCMSC conducts market research for all requirements. However, there is only one vendor, IHS Global Inc. that can provide maintenance on these USGS owned software licenses.

10. Recommendation Program Office

Based on the above, I recommend this acquisition be conducted on a sole source basis and certify that the above statements are true and correct.

[Redacted Signature]

[Redacted Signature]

Signature

06-02-2016

Date

11. Certifications from the Contracting Officer

- a. Price reasonableness will be established through comparison through to previous purchase orders and to the company's published price list.
- b. This justification is accurate and complete to the best of my knowledge and belief.

DANIEL GALVIN

Digitally signed by DANIEL

GALVIN

Date: 2016.07.26 14:32:14 -04'00'

Daniel Galvin, Contracting Officer

Date

12. Concurrence by Competition Advocate

JENNIFER KELLEY

Digitally signed by JENNIFER KELLEY
 DN: c=US, o=U.S. Government, ou=Department of
 the Interior, ou=Geological Survey, cn=JENNIFER
 KELLEY, 0.9.2342.19200300.100.1.1=14001000119299
 Date: 2016.07.27 06:49:54 -04'00'

Jennifer Kelley, Bureau Competition Advocate

Date

The U.S. Geological Survey (USGS) considers employee signatures to be Personal Protected Information, and therefore all employee signatures have been redacted. By posting this document, the Contracting Officer attests all appropriate signatures have been obtained.