

JUSTIFICATION FOR SOLE SOURCE ACQUISITION
VALUES \$3,001 - \$100,000
RECOMMENDATION AND DETERMINATION TO SOLICIT FROM ONE
SOURCE – PR 4200360828

NASA, John F. Kennedy Space Center, will negotiate with Scalable Network Technologies Inc. for Qualnet Developer 5.0. The total estimated cost of this effort is \$35,100 and the estimated turnaround time is 1 weeks ARO.

Pursuant to FAR 13.106-3(b)(3)(i), the acquisition of referenced Qualnet Developer 5.0 with tools and yearly maintenance and technical support are determined to be available from only one source. Competition is impractical for the following reasons:

QualNet Developer is ultra high-fidelity network evaluation software that predicts wireless, wired and mixed-platform network and networking device performance. It is designed to take full advantage of the multi-threading capabilities of multi-core 64-bit processors and QualNet supports simulation of thousands of network nodes.

Satellite Tool Kit (STK) is used in the Advanced System Lab for analysis of various flight systems and understanding of launch vehicle dynamics and tracking systems, as well as, complete situational awareness during launch and landing. STK is used in communications modeling and viewing remote flights in real time on the STK 3-D graphical interface.

The current project calls for network simulation within the STK modeling environment. Therefore, the whole network communication system (Qualnet) can be modeled the radio communication model (STK) in one seamless model environment. Qualnet Developer 5.0 is the only simulation package that has direct built-in support for interfacing with STK for a network communication modeling.

Based upon the above, I hereby determine that the circumstances of the contract action deem only one source reasonably available for this acquisition. I certify that the supporting data presented in this justification are accurate and complete.

Richard Birr
Richard Birr
Technical Officer

10/13/2010
Date

I hereby certify that this justification is accurate and complete to the best of my knowledge and belief.

Lynn E. Rafford
Lynn E. Rafford
Contracting Officer

10/13/2010
Date