



## **Locus Diagnostics, LLC Sole Source Justification**

### **General Information**

Locus Diagnostics, LLC founded in 2009 is the leading manufacturer of trunked/conventional radio maintenance management systems for Public Safety Communications, military and government use.

The Locus Diagnostics, LLC DX-1000c DiagnostX Over-the-Air Waveform Maintenance Management System, identifies, verifies and analyzes the health and field performance of any portable or mobile trunked radio in a network 24 hours a day, 7 days week without user interaction while the radios are operational and deployed in the field. The DiagnostX system consists of three subsystems of software running on specialized hardware: The DiagnostX Manager (DM) service, the DiagnostX Analyzer (DA) service, and the DiagnostX Viewer (DV) client interface.

### **Key Reasons for Sole Source**

Locus Diagnostics, LLC is the only manufacturer of such a device and only supplier of the DX-1000c DiagnostX Over-the-Air Waveform Maintenance Management System. DiagnostX is Patent Pending and no other manufacturer is producing the same product at this time.

DiagnostX is an innovative approach to Over-the-Air Bench Testing resulting in early detection of potential mobile and portable radio transmission problems, narrowband performance verification and diagnostics in trunked and conventional radio networks. DiagnostX incorporates a number of unique, patent-pending, and proprietary features which delivers Bench Monitor performance without user interaction while the radios are operational and deployed in the field. DiagnostX monitors the Inbound Control Channel (Uplink), capturing and analyzing Motorola, and EDACS networks and detects in real time, RF (Frequency Error, Frequency Change at Start, Frequency Variation, Frequency Deviation) and Emission Mask Conformance and continuously displays the radio status by ID. For P25: DiagnostX detects in real time, RF Frequency Error, Symbol Frequency Error 600, Symbol Frequency Error 1800, Modulation Fidelity and Emission Mask Conformance.

DiagnostX will increase the operational readiness, reduce costs and enhance the maintenance management of the radio communications system.

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