RFP – 100AZ-2205

Issue Date – August, 15 2016

Information Technology Section – Global Containment Unit

Request for Proposals

The act of reading and reviewing this proposal commits you and your organization to the Umbrella Corporation's TERMS OF SECRECY and NON-DISCLOSURE

Global Containment Unit, System Requirements

Problem Statement

Umbrella Corporation (UC) is soliciting proposals for a global information data platform capable of supporting four corporate research facilities or "Hive" units. Each Hive produces high volumes of sensor data along with data to describe and locate sensors and sensor networks. Details of specific requirements will be provided in the three following sections

Sensor Data

Hive facilities range from seventeen to thirty-seven individual levels. Each level contains seventy-four to one hundred sensors. There are seven types of sensors with three categories of sensor data; motion, temperature and humidity. All sensor data must be processed by the vendor system with storage of summarized sensor logs and various time intervals. All sensor data must be stored for a ninety days with summary data stored for one year. Each sensor reports data every five seconds.

Sensor data must be analyzed by any attribute or combination of attributes. The proposed solution must provide the ability to further analyze the data through yet to be determined analytic patterns.

Sensor Network

Hive location sensors provide individual data feeds but operate as part of a larger sensor network. The proposed vendor solution must provide the ability to store, analyze and visualize complex networks. Dependencies in the network must be retrievable for operational evaluation within 200 ms of the request being received.

Sensor Metadata

Each sensor in the Hive facility must be tracked for maintenance and vendor specific information. Sensor metadata must be searchable by any attribute. Metadata attributes include vendor, serial number, manufacture date, deployment date, maintenance history, retirement date and sensor type.

Data Volume and System Sizing

The vendor must supply system sizing information based on RFP contents. This is to include storage requirements for vendor configurations, general hardware profiles and the number of hardware units involved.

Response Requirements

Written Response

Proposals must include a formal response containing three written sections; vendor company background, technology and solution overview, technical compliance containing specific descriptions of applicability of vendor technology and problem statement fit.

The written proposal will be no more than three pages, submitted in Adobe PDF. Fonts must be no smaller than 12pts. Tables may contain text no smaller than 10pts. All diagrams and images must be labeled and count toward page count. Specific technology assertions must include references to supporting documentation or other vendor provided artifacts. Reference will be included as an appendix and will not count toward response page length limits.

A one-page system diagram is required detailing physical and logical layout of the proposed solution.

Presentation

Vendors must provide a fifteen-minute technology briefing and proposed solution overview. No more than ten slides will be allowed. Five minutes must be reserved for a question and answer session.

Working Demo

Vendors must provide a simple working demonstration of their technology and proposed solution. No user interface is required however, all supporting components must be deployable by UC and supplied in a UC accessible code repository.