



ITC – 8030-0-2009/MM
ADVANCE NOTICE OF INTENT TO CONTRACT
THROUGH SOLE SOURCE PROCUREMENT
FOR WIRELESS MESH NETWORK SERVICES

June 19, 2009

The purpose of this Advance Notice of Intent to Contract through Sole Source Procurement is to inform the contractor community and the public that the City of Madison intends to enter into a noncompetitive contract to purchase certain goods and/or services to expand the wireless network for City employees as identified in the Contract Summary (see below).

To the best knowledge of the City, only one source is available to provide the combination of services and equipment described in the Contract Summary, and the proposed procurement would be subject to valid exceptions to the City's competitive purchasing policies.

While the City is not required to provide this notice, the City seeks to enhance transparency in City procurement, foster full and open competition, and provide potential contractors an opportunity to submit a statement of capabilities to fulfill the specified requirements. This notice is also intended to seek comments, alternative approaches and/or a business design to address this procurement.

Vendors who believe they are capable of meeting the City of Madison's requirement as stated herein or who have expertise in this subject matter, or who believe they might be significantly impacted by this procurement are encouraged to submit a written response:

BY: Friday, July 10, 2009, 2:00 p.m., CST

TO: PURCHASING SERVICES
210 Martin Luther King, Jr., Blvd. Room 407
Madison, Wisconsin 53703-3346

The City will review all responses received and shall, in its sole discretion, exercise its right to proceed with any one of the following actions: 1) issue a formal Request for Proposals or Request for Information, 2) follow applicable city ordinances and policies to enter into negotiations for a sole-source contract with the pre-identified contractor, 3) pursue additional research, 4) solicit specific consultant services, 5) exercise any other option that the City feels is in its best interest. No contract will be awarded solely on the basis of offers received in response to this notice.

City of Madison Ordinances and Purchasing Policies encourage maximum competition in selecting and awarding all contracts for purchase of services and goods/equipment while allowing for exceptions under certain circumstances. See Section 4.26 of the Madison General Ordinances for further information.

Any questions may be submitted in writing to Monette McGuire, mmcguire@cityofmadison.com.

DISCLAIMER: This notice is provided as a courtesy and for convenience only. This notice does not obligate the City of Madison to conduct any procurement or negotiations, nor to provide future notices regarding this proposed procurement.

**ADVANCE NOTICE OF INTENT TO CONTRACT
FOR WIRELESS MESH NETWORK SERVICES**

Background

The City of Madison would like to provide a seamless wireless mesh network that would be available to all city staff in the Madison metropolitan area. The goal of this project is a single constant Internet availability throughout the city that will facilitate the use of a wireless network and minimize redundancy, expense, and inconsistency of coverage. This project seeks to establish a public /private partnership that will 1) reduce communications costs associated with city operations and increase productivity for city workers and 2) utilize a private network operator that will run a wireless network across the City of Madison, and service anchor tenants such as local schools, businesses, the City and potentially, the general public and 3) leverage City assets to improve City-wide communications infrastructure and cultivate a prosperous business environment that fosters continued technological telecommunications advancements.

Coverage Areas

The existing mesh network currently covers a 1.5-mile radius from the State Capitol, a link at the Dane County Regional Airport, and a corridor down Park St. to the Beltline. Current coverage includes the interior of buildings within these areas. Phase two of the project will initially include coverage along primary bus routes with coverage expansion to all secondary and tertiary routes. Phase 3 we require a plan for completely covering the City of Madison so that the City can plan to migrate additional municipal applications to the network.

Services

Wireless capability must be available at the street level of all city-owned buildings within the initial coverage area and must be planned for the entire City of Madison. Use of the network for mobile emergency response, public health purposes, and public safety (e.g. crews dealing with downed trees or power lines) must be a priority. Public spaces, such as city parks and the Capitol grounds within the coverage area must be accessible. The City of Madison must have the option of paying for the usage of discreet coverage areas, making that area free to the end user. An example would be an economically disadvantaged neighborhood, allowing the municipality to help bridge the digital divide.

Compensation for Services

The City will allow access to its infrastructure, such as buildings, towers, water towers, light poles, and in-ground conduit, for the installation of equipment and towers in order to maximize the coverage of the mesh network. In return the partner vendor will provide unlimited free access to the mesh network for City field employees and other city-operated wireless applications such as AVL and multi-space meter devices.

System Requirements

Listed below are the various system requirements for the City. Services must be designed to serve indoor and outdoor clients.

General System Needs

- Wireless Internet access services.
- Dynamic and static IP addressing.
- A dedicated network (SSID) for the City.
- Classes of service suitable for business, residential, public safety and special projects.
- Availability of always on, always connected, VLANs (or acceptable alternatives) that can be dedicated to specific applications (i.e., one VLAN per major application)
- Availability of prioritized quality of service by VLAN (or acceptable alternatives) for types of traffic flows (i.e., voice, data, video)
- Support IP mobility for vehicles moving at traffic speeds as they pass through the coverage areas, or cells, so that connections are maintained. The system must be capable of delivering wireless voice, data, and video communications services to patrons and visitors as they occupy or roam through defined authorized access areas of city facilities.
- Provide data backbone capabilities between designated locations.
- Quality of Service suitable for voice, data, and video.
- The partner vendor will operate the ISO layer 2 portion of the wireless network so as to provide a common, non-discriminatory service platform for multiple local and/or global Internet Service Providers.
- Network access can be provided either directly through the partner vendor or any full-service provider on the network.
- The partner vendor will work with the city to enable roaming between the city's wireless hotspots and the vendor's mesh network to the extent technologically feasible and economically viable.
- The partner vendor will use diligence and good faith efforts to negotiate pre-defined service levels in its agreements with all service providers.
- Technology must be built and managed to current industry standards for wireless networks and to current industry standards for security.
- Best efforts to resolve any communications interference by/for either party.
- Priority for City public safety uses can be enabled on the network.
- The partner vendor agrees to sign a City of Madison Network Connection agreement and comply with the Network Connection Policy.

The partner vendor agrees to sign a City of Madison Purchase of Service contract to include all applicable City contract clauses, including but not limited to statements of nondiscrimination, equal opportunity and affirmative action, submission of an Affirmative Action Plan, indemnification and insurance requirements. A sample Purchase of Services contract is available at:

<http://www.cityofmadison.com/attorney/Contract-POS.DOT>

Operation, Maintenance, and System Evolution

- Provide system performance measurement, monitoring, repair, and maintenance on a 24/7 basis.
- Maintain good performance levels, or as negotiated
- Provide network survivability if a tower, or site, is lost
- Provide equipment that can be remotely updated, configured, and maintained with a minimum of service disruption
- Plan for upgrading infrastructure, capacities, and services as technologies advance so that they do not become obsolete, or are no longer competitive, while minimizing and controlling costs
- The City will bear no cost for initial build, nor any future upgrades.
- The City will bear no cost for operation and maintenance of the mesh network.