



## **Wireless, Public Safety, & Homeland Security** **Capability Summary**

Telecommunications Development Corporation (TDC), established in 1995, specializes in Information Technology Consulting, Wireless and Wireline Communications, and Training services to government agencies, major firms, associations, and other organizations. TDC's customer focused, solution based approach to client services is designed and managed to uniquely provide a broad range of Project Management expertise to each of its clients. TDC has worked in various capacities with the Government of the District of Columbia and the National Capital Region (NCR) on various public safety and homeland security initiatives over the past five (5) years.

TDC has over ten (10) years experience in Program Management Support Services focused on delivering high quality unsurpassed services at competitive prices. Our staff is dedicated to providing and establishing effective working relationships with private and public officials, customers, the general public, and project and program stakeholders. TDC employees have strong interpersonal and communication skills, as well as the ability to work effectively with a wide range of constituencies in diverse organizations. In addition, TDC consultants have the proven expertise in the development of formal policies, procedures, standards, practices and trends. We pride ourselves on maintaining a staff that has the skills to meet and exceed multiple dead lines and objectives.

TDC has a vast array of Project Management experience with several agencies in the Government of the District of Columbia and the Council of Governments including various programs under the oversight, jurisdiction, and management of the Deputy Mayor for Public Safety and Justice and the Office of the Chief Technology Officer. TDC has managed all efforts associated with the wireless systems expansion and the implementation of the Flarion high speed data network, in addition to project management and oversight of all technical systems associated with the Public Safety Communications Center and the Unified Communications Center. The following summarizes TDC's experience regarding a select number of projects:

### **Wireless Voice and Data and Data Applications ~ District of Columbia Wireless Interoperability Network (DWINS)**

In December of 2001, in the aftermath of the September 11th terrorist attacks, TDC was contracted by The District of Columbia, Office of the chief Technology Officer (OCTO) to develop a strategy and program plan for integrating the District's Public Safety radio programs into an OCTO Wireless Programs Area division. OCTO was tasked by the Mayor and City Council with integrating District radio engineering and operations into a consolidated communications agency, the Office Unified Communications (OUC), and to provide engineering and project management for major radio initiatives within the District.

In the early stages of this strategy and the program office development and implementation effort, the District was the beneficiary of a Federal grant to enhance and optimize radio communication capabilities in the District. The OCTO Wireless Program Area was immediately tasked with all program definition, management, network and system engineering, vendor contracting, construction management, training, operational procedures and all attributes required to successfully accomplish a program of this scale and complexity. As an added challenge, the OCTO Wireless Program Area team agreed to complete this program within an 18-month time frame, less than half the time normally required for programs of this size and scope. These



were unusually sensitive times affecting security and communications in the nation's capital requiring an urgent response, which the TDC wireless team delivered.

### **National Capital Region Interoperable Program (NCRIP)**

The National Capital Region Interoperable Program (NCRIP) is a multi-project technical program directed at enhancing and facilitating data interoperability for all Emergency Support Function (ESF) responders and agencies within the NCR. Focusing on three distinct areas of interoperability, the scope of the program includes the creation and or connection of all government institutional fiber networks (INET), the creation of a regional wireless broadband network (RWBN) and the development of a Data Exchange Hub (DEH) that the National Capital Region (NCR) government agencies and organizations across the region can use to share critical data and information during an emergency and during day to day operations.

TDC staff members today and over the course of this program have included the NCRIP Program Manager, the Program Coordinator, the Project Manager for the Broadband Wireless network, various Senior Systems Architects, Voice Communications Management, Subject Matter Experts (Lead), Communications Specialist, Communications Network Manager, Senior Applications Engineer, Data Communications Manager, Radio Systems Engineer, Senior Radio Systems Engineer and others. We are also managing the activities of 5-6 contractors on the program who collectively are developing system requirements, conducting gaps analysis, design voice and data networks and topologies and a Software Open Architecture data exchange hub to facilitate a comprehensive voice and data interoperable network for the NCR that will facilitate enhanced interoperable communications for a host of local, state and federal responders and agencies. The National Capital Region (NCR) is a complex multi-jurisdictional area comprising 19 jurisdictions including the District of Columbia and surrounding counties and cities in the states of Maryland and Virginia and is home to the federal government, many national landmarks, and military installations.

### **Public Safety Wireless Network Expansion/Migration**

The project included the design, procurement, and relocation of all control infrastructures for both radio systems, as well as extensive testing, end-user coordination and training, and system acceptance. The Public Safety Wireless Expansion / Migration project included the successful expansion of the District of Columbia Fire / Emergency Medical Services (FEMS) 800 MHz radio system to ensure in-building radio communications throughout the city, as well as the migration of the Metropolitan Police Department (MPD) 450 MHz conventional system to a fully digital network on a common control platform with the FEMS 800 MHz network for full interoperability for DC public safety wireless communications and dispatch.

### **Wireless Accelerated Responders' Network (WARN)**

WARN is a Washington, DC interoperable broadband wireless network initiative. This innovative program is a joint partnership program operated by the Office of the Chief Technology Officer of the District of Columbia in conjunction with the program vendors, Motorola, Inc, and Flarion, Inc. The network has been operational since January 2005 and provides service to Federal and local agencies for events ranging from Presidential Inaugurations to HAZMAT spills.

TDC provides overall deployment and operational management of this broadband network. The network provides peak speeds in excess of 2.5 Mbps throughout Washington, DC using 12 transceiver sites.



This dedicated private high-speed data radio networks will be an essential technology to the District and Federal agencies for supporting various mobile video and broadband data applications and data transfer. It will also support various voice and data applications including CapWIN, PROTECT (an application dedicated to accelerating first responder support to a chemical attack in the Metro tunnels system), and other video and wide area broadband wireless data applications.

TDC technologists have secured radio spectrum (via a FCC Experimental License) and have collaborated with equipment vendors to design this high speed, Internet Protocol (IP) based radio network. Obtaining an experimental license to operate in the 700MHz band was a significant milestone. It required extensive testing of TV broadcasters and proceeding negotiations with them to obtain their permission, months of technical reviews of FCC rules and then writing of the application. Subsequently, we needed to file a modification to the license when the vendor could not meet all of the frequency constraints.

### Capital Wireless Interoperability Network (CapWIN)

The CapWIN project consists of developing a wireless data platform supporting interoperable mobile data terminal (MDT) communications between public safety agencies and their respective criminal, motor vehicle, driver licensing and other databases including various federally databases. Many agencies now use disparate MDT systems operating on different standards, frequencies and terminals and cannot communicate directly with one another or secure access to other municipality/agency data while mobile. The CapWIN platform will deliver interoperability, authenticity and security supporting interface between various Public Safety databases in the Washington DC metropolitan area. It will enable secure information sharing and querying, text, voice and video messaging. TDC team members have supported requirements definition together with ongoing technical and administrative support of the program on behalf of the District.

### AMTRAK

TDC provides Program Management, and Information Systems and Database Development services for the implementation of Amtrak's nationwide Public Safety Computer Aided Dispatch system that crosses disciplines, and interfaces law enforcement, transportation and other emergency management information systems and business processes. These systems will enable unprecedented real time coordination of resources, combining data from incoming 9-1-1 calls, roadway sensors, highway service and police patrols to help make the passenger rail an increasingly secure and efficient component of our nation's transportation and public safety systems.

TDC is also responsible for Vendor Management to oversee governance and relationship management to keep vendors focused on innovation, improvements, contractual obligations and results, and Amtrak's corporate goals based on key performance indicators. TDC develops and manages contracts and the development of procurement documents, requests for proposals, evaluation and decision criteria, and facilitates and participates in the evaluation process.

### National Capital Region (NCR) Homeland Security Grant Program Management

TDC was awarded the entire program management function for the NCR Homeland Security Grant Program to manage all of the Urban Area Security Initiative (UASI) funds for the NCR's Senior Policy Group and the Sergeant at Arms for DHS. Up until the time of the award, only administration was conducted of the more than **\$230M grant program**. TDC is currently responsible for the project management of all programs included in the grant program, as well as the development of a program management office, policies, procedures, financial management, and related functions. The grant programs include all public



safety, municipal homeland security, and wireless initiatives funded by the program in all counties included in the region (District of Columbia, Montgomery County, Prince Georges County, Montgomery County, Prince William County, Howard County, Fairfax County, and Arlington County).

### **Unified Communications Center (UCC)**

The UCC, a **\$116M District of Columbia capital project**, shall consolidate all the public safety and non-public safety communications functions of the District of Columbia into a common location and onto common systems and infrastructure. The UCC shall relocate and consolidate the systems and functions associated with 9-1-1, 3-1-1, the Mayor's Customer Service Call Center, the Emergency Management Agency, as well as a satellite function of the District of Columbia Department of Transportation. TDC has program management responsibilities for all technical systems that will be housed in the UCC.

The UCC technical systems include the following:

- 9-1-1 and 3-1-1 Telephony
- Computer Aided Dispatch
- Public Safety Radio
- Digital Voice Logging Recorder System
- Timing System
- LAN/WAN System
- Internal Network Monitoring Systems

TDC responsibilities include stakeholder coordination, requirements definition, and management of all design, integration, implementation, cutover, training, and acceptance. TDC provides vendor management and negotiation, the development of procurement documentation, project planning, reporting, and tracking. TDC additionally provides project management expertise related to the UCC facility construction, the integration of complex technology systems into the new facility, organizational development, business process re-engineering, and community outreach. The UCC is scheduled to be complete in late 2006.

### **District of Columbia Public Safety Communications Center (PSCC)**

The PSCC, cutover in June 2001, is currently responsible for all public safety emergency and non-emergency communications in the District of Columbia. This includes all systems, applications and infrastructure, which support both 9-1-1 and 3-1-1 communications for the District of Columbia. TDC project managers were responsible for the migration of disparate Police and Fire 9-1-1 and 3-1-1 communications functions into a common location, and onto common systems and infrastructure. PSCC systems include Nortel/Plant Equipment Telephony System, Intergraph Computer Aided Dispatch Systems, Motorola Gold Elite Radio System, Dictaphone Logger Recorder System, Spectracom Timing System, and related LAN/WAN infrastructure. TDC responsibilities included requirements definition, sub-system vendor procurement and management, systems integration, training, cutover, and acceptance.

### **District of Columbia Office of Unified Communications (OUC)**

The Office of Unified Communications was established in October 2004. The development of the Office of Unified Communications included various organizational development and business process assessment tasks which culminated in a comprehensive document defining best practices, recommendations, and various project planning and legislative drafts for the



development of this new agency which shall consolidate all the currently disparate communications functions of the District of Columbia into a common facility, with common technology infrastructure, and common business practices. The newly created OUC has effectively and efficiently absorbed the communications personnel of the Metropolitan Police Department, The Fire / Emergency Medical Services Department, The Executive Office of the Mayor, and other agency communication functions. The project included a staffing and human resource assessment, multi-jurisdictional best practice assessments and recommendations, process definitions, and the identification of multi-agency dependencies dealing with issues such as personnel unions and legislative disparities. TDC project management professionals developed project plans, work breakdown schedules, project scheduling, and tracking. In addition, TDC project management professionals consolidated public safety stakeholder input and provided vendor management and oversight, project reporting and tracking.

### **Computer Aided Dispatch System Upgrade / Migration**

TDC project managers and subject matter experts were responsible for the successful upgrade of the existing Computer Aided Dispatch system, including technology refresh and infrastructure replacement at the existing Public Safety Communications Center in the mandated three (3) month timeline. The Project included training of all users, replacement of 65 workstations, replacement, relocation, and/or upgrade of eight (8) servers, as well as training, acceptance, and post cutover support. Project was completed in April 2004. TDC project managers were responsible for requirements definition, vendor negotiation and procurement activities, project tracking and reporting to the Chief Technology Officer, the Deputy Mayor for Public Safety and Justice, among other executive level and stakeholder entities.

### **TDC Certifications and Contract Vehicles**

#### **Certifications**

8a – Small Business Administration  
Local Disadvantaged Business Enterprise (LSDBE) – Government of the District of Columbia  
Minority Business Enterprise (MBE) - MD / DC Minority Supplier Development Council  
Minority Business Enterprise (MBE) - MD / Prince George's County

#### **Contract Vehicles**

GSA Schedule – GS 35F0307k  
DCSS / ITSS – District of Columbia Supply Schedule for Information Technology  
MOBIS – Management, Organization, and Business Improvement Services  
MWAA – Metropolitan Washington Airports Authority