



Data Access & Support Center (DASC) Support Services for Kansas NG9-1-1 Program

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1 Executive Summary

The State of Kansas Data Access & Support Center (DASC), located at the Kansas Geological Survey, serves as the State’s GIS data clearinghouse. DASC maintains a highly qualified staff of GIS professionals and provides a variety of services to the Kansas GIS community. The 911 Coordinating Council has leveraged DASC’s resources to support the GIS aspects of the Council’s Next Generation 911 (NG9-1-1) Initiative and it has been the pleasure of the DASC team to support this important endeavor. As the NG9-1-1 program migrates from planning to implementation, it is envisioned that additional DASC services will be required to support the project. These services will include coordination and outreach, GIS-related training, program portal development and maintenance, statewide imagery database management, and policy and program development. This proposal provides a brief description of these service areas and a cost proposal summary.

2 Introduction

Since its inception in 1991, the Data Access & Support Center (DASC) has served as the State of Kansas Geographic Information System (GIS) Data Clearinghouse. Over the past 23 years, the geospatial technology industry has experienced tremendous growth. Once seen as a back-office technology utilized by a few experienced technicians, GIS has now been integrated into numerous applications and business processes. This is evidenced by the critical role that GIS plays in NG9-1-1. Originally created as a center for archiving and distributing geospatial data, DASC has also worked to grow its service portfolio. While data archival and distribution are still at the core of DASC's mission, DASC also provides a variety of geospatial services including web-based application development and hosting, database development and integration, state and local coordination, technical support, and local GIS data backup. These services are intended to support the Kansas GIS Initiative and complement state and local GIS activities.

The two primary stages of NG9-1-1 are short-term project implementation and long-term program operation and maintenance. GIS is a key component of both of these phases, and a cornerstone of a functional NG9-1-1 system. Over the past 12 months, DASC supported numerous aspects of the Council’s NG9-1-1 Initiative. The services provided are listed in the table below. The value of these in-kind services is estimated to have exceeded \$150,000. As NG9-1-1 transitions from planning to implementation, DASC will work with NG9-1-1 project leadership and related committees to determine appropriate service categories and define work plans.

FUNCTION	DESCRIPTION
Committee support	DASC staff members play leadership or support roles on several NG9-1-1 related committees as listed below: <ul style="list-style-type: none"> • GIS Subcommittee (committee chairperson) • Governance Committee • GIS Governance Workgroup • GIS Data Review Committee • Technical Committee
Procurement support	DASC staff members support the following NG9-1-1 related procurements: <ul style="list-style-type: none"> • GIS Gap Analysis & Data Remediation RFP (review panel member)

	<ul style="list-style-type: none"> Statewide Orthoimagery RFP (led team that developed requirements, Procurement Negotiation Committee (PNC) member) NG9-1-1 Infrastructure RFP (review panel member)
Statewide imagery database	<p>DASC provides the following support for the statewide imagery project:</p> <ul style="list-style-type: none"> Developed/hosted web-based imagery request form Manage Valtus web service user accounts Archive and distribute file-based formats (GeoTIFF/MrSID) as they are delivered Communicate with Surdex & Valtus regarding technical issues Provide technical support to end users as necessary
Website/other	<p>DASC provides other web-based services including:</p> <ul style="list-style-type: none"> Development & maintenance of a special GIS & NG9-1-1 section of the DASC website Storage of local jurisdiction GIS data including: <ul style="list-style-type: none"> Pre-remediated GIS data Post-remediated GIS data Gap analysis and QA reports Storage of GIS Subcommittee documents and policies Development of ArcGIS Python script to help jurisdictions complete GIS data documentation (metadata)

3 Description of Services

The DASC manager will coordinate with the 911 liaison and 911 program manager to develop an annual work plan that defines project direction, services areas, and goals. This plan will be submitted to the 911 Coordinating Council for approval in January of each year. *An annual “true-up” of services will ensure that DASC’s resources are utilized where they make strategic sense and complement those of other NG9-1-1 partners and service providers.* Given this assumption, service areas envisioned under this project are as follow:

3.1 Coordination and Outreach

The transition from E-911 to NG9-1-1 services is an enormous undertaking. Included in this transition is the largest GIS project ever conducted in Kansas. With a project of this size, communication is vital. DASC will support the development and delivery of outreach programs that are consistent with the NG9-1-1 Communications Plan. Additionally, DASC will prepare supporting materials to be posted to the Kansas911.org or KansasGIS.org/ng911 websites.

3.2 NG9-1-1 & GIS Training

The Council’s GIS Subcommittee has developed and published the *Kansas NG9-1-1 GIS Data Model* to provide a consistent data framework that is compatible with emerging NENA standards, and to assist local jurisdictions with the data remediation process. As standards, guidelines, tools, and processes are developed, technicians and managers alike will require regular training to maintain or develop the skills necessary to maintain the GIS data required by an NG9-1-1 system. Working in collaboration with



Sherry Massey (GIS Coordinator, Dickinson County, KS) and the Council's Operations Committee, DASC will support the development and implementation of an NG9-1-1 GIS training program.

3.3 Project Management

The DASC manager shall appoint a DASC project manager to oversee all of the DASC support services. The DASC project manager is responsible for managing, monitoring and reporting on:

- **Schedule.** The delivery status of the various task orders shall be reported monthly including but not limited to percent complete.
- **Resource Plan.** To ensure the right resources are available and assigned as appropriate to accomplish the various tasks within the time and funding constraints.
- **Funding.** Track budget and actual costs by year for the duration of effort as part of the NG911 Cost and Schedule Control System (C/SCS).
- **Change Management.** Any change in scope of work (increase or decrease) requires a Change Order Request (COR) approved by the NG911 program manager, the NG911 liaison and the DASC manager.
- **Communication Plan.** Because the various task orders are relatively broad with multiple the touch-points, the DASC project manager shall develop a basic communication plan. This plan considers workflow and communication among the various providers and consumers for the various tasks.

The NG911 program manager will furnish a simple project management tool (spreadsheet) for planning, tracking and reporting DASC support services status.

3.4 Program Portal - Development and Maintenance

The Kansas NG9-1-1 program is broad in scope and involves a large number of stakeholders. A web-based program management portal is required to implement and manage a program of this complexity and duration. The management portal will contain a variety of modules that provide access to different types of functionality and information to registered users. Access to information contained within the portal will be controlled through strictly enforced user and group policies. The management portal and its associated modules will be designed to support the full breadth of the NG911 program, from procurement, to development and implementation, and operations and maintenance.

3.5 Statewide Orthoimagery Database Management

The 911 Coordinating Council invested in a statewide, high-resolution orthoimagery database to support the GIS data remediation and other state and local GIS project requirements. The data is being provided via web services published through Valtus Imagery Services, and in file-based formats (GeoTIFF/MrSID) created by Surdex Corporation. DASC is facilitating access to imagery products, providing technical support to end-users, and interfacing with the vendor on issues related to product deliverables, schedule, and license agreement. DASC will continue to serve in this capacity and promote use of this valuable asset.



3.6 Policy and Program Development

DASC staff members serve on numerous committees that help foster NG9-1-1 and GIS policy development:

- Technical Committee
- Governance Committee
- GIS Subcommittee
 - GIS Governance Committee
 - Data Review Committee

4 Project Schedule

The term of the project will be January 1, 2015 – December 31, 2017. As mentioned earlier, the DASC manager will coordinate with the 911 liaison and 911 program manager to develop an annual work plan and budget for approval by the 911 Coordinating Council. Quarterly status reports will be provided to the 911 Coordinating Council chairperson.

5 Proposed Budget

Project Year	Total
Year 1 (January, 2015 – December, 2015)	\$160,000
Year 2 (January, 2016 – December, 2016)	\$160,000
Year 3 (January, 2017 – December, 2017)	\$160,000
Total	\$480,000