

**PLEASE NOTIFY ACOG AT 234-2264 (TTY 234-2217) BY 5:00 P.M., NOVEMBER 1, 2007
IF YOU DESIRE A SIGN-LANGUAGE INTERPRETER AT THE MEETING**



association of central oklahoma governments

Chair Mark Sharpton
Logan County Commissioner

Vice-Chair Willa Johnson
Oklahoma County Commissioner

Secretary/Treasurer Kathy Walker
Nichols Hills Councilmember

Executive Director
Zach D. Taylor

**REGIONAL GIS TECHNICAL COMMITTEE
MEETING AGENDA**

9:00 a.m., Tuesday, November 6, 2007
ACOG Conference Room
21 E. Main – Suite 100
Oklahoma City, OK 73104

- I. CALL TO ORDER
- II. INTRODUCTIONS
- III. APPROVAL OF MINUTES – May 1, 2007 ([Attachment III](#))
- IV. REGIONAL AERIAL PHOTOGRAPHY PROJECT ([Attachment IV](#))

INFORMATION: Attached is a summary of recent discussions of the Aerial Photography Subcommittee.

Action Requested: As desired by the committee.

- V. REGIONAL DATA STANDARDS AND OU AGREEMENT ([Attachment V](#))

INFORMATION: The attached memo describes recommendations of the Regional Standards Subcommittee and a draft Memorandum of Understanding with the OU Center for Spatial Analysis (CSA).

Action Requested: Review and comment.

- VI. NEW BUSINESS
- VII. ADJOURNMENT

REGIONAL GIS TECHNICAL COMMITTEE MEETING MINUTES
ACOG CONFERENCE ROOM
May 1, 2007

The second meeting of the calendar year 2007 of the GIS Technical Committee Meeting convened at 9:02 a.m., May 1, 2007 in the ACOG Conference Room, 21 E. Main, Ste. 100, Oklahoma City, Oklahoma. This meeting was held as indicated by advance notice filed with the Oklahoma County Clerk and by notice posted at the ACOG Offices, 21 E. Main, Ste. 100, at least twenty-four (24) hours prior to the meeting.

PRESIDING

Jane Sutter, Chair, Intergovernmental Services Division Director

MEMBERS PRESENT

Marion Wright, Bethany
Amy Brandley, Canadian County
Mark Seibold, Choctaw
Sam Woodfork, Cleveland County
Sara Cobb, Edmond
John Avera, Edmond
Matt Stillwell, Edmond
Robert Coleman, El Reno
Kathy Ogburn, EMSA
Jim Hanke, Guthrie
Art Sipes, Harrah
Juan Prewitt, Langston City
Mike Bower, Midwest City
Jackie D'Amico, Midwest City
Kent Sanmann, Moore
Neil Gray, Nichols Hills
Joyce Green, Norman
Lance Terry, Norman
Bob Sweet, Oklahoma City
Erik Brandt, Oklahoma County
Larry Stein, Oklahoma County
Tammy Kualaaau, Piedmont
Louise Hickman, Yukon
Anna Waggoner, Yukon

GUESTS

Scott March, Center for Spatial Analysis OU
May Yuan, Center for Spatial Analysis OU

STAFF

Zach Taylor, Executive Director

Jane Sutter, Division Director, Intergovernmental Services

Stephen M. Willoughby, E9-1-1 & Public Safety Programs Director

Brad Nesom, 9-1-1 GIS Senior Specialist

Carolyn White, E9-1-1 Database Manager

Peggy Stoller, 9-1-1 Mapping Projects Coordinator

John Sharp, Program Coordinator, Transportation

Paulette Marshall, E9-1-1 Data Management Associate

I. CALL TO ORDER

Chair Jane Sutter called the meeting to order at 9:02 a.m. A quorum was present.

II. INTRODUCTIONS

Self-introductions were made around the room.

III. APPROVAL OF MINUTES – FEBRUARY 6, 2007

Juan Prewitt, Langston City, made a motion to approve the minutes of the February 6, 2007 meeting. Jackie D'Amico, Midwest City, seconded the motion. The motion carried the following votes:

AYE: Wright, Brandley, Seibold, Woodfork, Avera, Cobb, Stillwell, Coleman, Ogden, Hanke, Sipes, Bower, Sanmann, Gray, Green, Terry, Sweet, Brandt, Stein, Kualaau, Hickman, and Waggoner

NAY: None

ABSTAIN: None

IV. AERIAL PHOTOGRAPHY PROJECT

Brad Nesom, ACOG, said even though many of our agencies cover the same area, it is difficult to manage a comprehensive aerial photography project involving a large group such as in this region. Therefore, he recommended that smaller purchases of stock photography be done together in order to begin to work out standards issues and also clarify some of the primary needs. He said Aerials Express in Phoenix, AZ brought their demonstration here. We were able to see one foot and one and one-half foot pixel photography. It was awesome photography done from approximately 21,000 feet. We were told that it was done fairly inexpensively.

He said this stock photography could be used as an interim project to encourage our group to begin working out standards. He said the city of Oklahoma City, Edmond and Norman do not photograph on the same years, but may want to consider a joint purchase in the future if there is a cost savings.

Brad showed examples of the one and a half foot aerials that were photographed in March of this year of a new development in the city of Norman. He pointed out the coverage area which was about 3,085 square miles and said the cost to photograph was \$15,000.

Jackie D'Amico, Midwest City, asked if the photographers have the ability to add resolution. Brad said possibly yes for more money.

Brad recommended a joint purchase of inexpensive stock photography in the short term, with one of the cities that plan to fly next year and make that unnecessary until a larger, regional photography project could be done in the future (possibly getting four inch pixels and six inch pixels in rural areas).

Jackie asked if the photography company has the ability to produce a metrics plan. Brad said they plan to. Jackie said the city of Midwest City has budgeted six inch pixels and two feet pixels in their budget for next year.

V. ACOG GIS MAP DATA ASSESSMENT SURVEY RESULTS

Brad reported on the results of the surveys distributed February 6, 2007. Of the eight surveys received, about 60 percent of the respondents use GIS on a regular basis, 50 percent use aerial photography and 50 percent are able to print maps.

The survey respondents indicated they would use ACOG's assistance. The highest priorities were technical assistance, group purchases, grant writing and educational training.

Brad reported that El Reno, Langston City, Marshall, Noble, Oklahoma City, Oklahoma County, Piedmont, and Nichols Hills have all responded to the survey.

VI. SUBCOMMITTEE ESTABLISHMENT

Brad passed around a subcommittee sign-up sheet.

Brad said the Aerial Subcommittee would work on needs, schedules and standards for a plan to go forward with purchasing regional aerial photography. He encouraged anyone interested in that to sign up.

Brad said it will become easier to maintain the information and integrate it into the regional data that can be sent out to the users.

Jane encouraged the group to sign up. She said anyone interested should remain a few minutes after this meeting to agree on a future subcommittee meeting date.

Louise Hickman, Yukon, recommended that the aerial photography needs to be all the 911 area. Brad agreed.

Larry Stein, Oklahoma County Assessors office, asked if there a website to go to so we can take a look at the data and see how their system works, i.e., locate cross streets by indicating an address.

Brad said he was not sure the simple look-ups would provide that, but with some GIS software that can be done on the Tel-Atlas data. That can be done oh the 9-1-1 data which should be accessible if GIS data is not available.

Larry asked if there is a test site to sign into and view; see pictures possibly.

Brad said Aerial Express has a website, www.aerialsexpress.com, He said he is not familiar with whether or not they have something you can test. Brad said he has some sample areas of that photography on CD that he could provide, which are full resolution images of the areas.

Steve Willoughby said we are not necessarily endorsing any particular company. Brad agreed and said we had the opportunity given to us by Aerial Express to demonstrate their product, He said there are many avenues for stock photography and suggested that it would be wise to develop standards first before selecting a company.

Juan Prewitt said their city council inquired as to how aerial photos would be used concerning Langston.

Brad explained that aerial photographs are invaluable regarding 9-1-1, especially in areas of new development.

Lance Terry, Norman, said that dispatchers have a huge need to be able to instruct a responder on where to locate the emergency, e.g. a grass fire located on the other side of a creek behind a house. The responder might ask where they need to go to cross the creek. There are instances when it would be helpful for the dispatchers to be able to give specifics and that aerials would be a great feature to have available.

Larry said if city personnel were able to see structures and zoning issues on an aerial photograph it would be an amazing transformation;

Sarah Cobb, Edmond, said they use them at their city council meetings. It is very good to have a visual to see where a sewer line is; to be able to see where everything is structurally located.

Jane said the Regional Aerial Photography Subcommittee needs to get together and recommended that they get together after today's meeting and agree on a future date to meet.

VII. GENERAL STATUS REPORT

Brad said that staff is working to finalize the Spatial Analysis OU CSA Agreement for Data Access between ACOG and the University of Oklahoma to make regional data available to the general public via Internet Interactive Mapping. Copies of a draft agreement were made available to the group.

Brad said it is the task of the Regional Standards Subcommittee to refine exactly what data is going and what we are going to present to the Regional GIS Technical Committee before sending it to OU.

Jane said we have a good starting point by using the agreement previously made between OU and the City of Moore.

May Yuan, Oklahoma University, said that OU has gone through a reorganization of the Research Center and the Geo Information System. OU will have a better integrated infrastructure enabling GIS teaching, research and application. She said this element falls into the application division of spatial analysis. She said they will continue to work with state and local government to promote GIS applications and disseminate data for public use. She said this agreement started as a USGS's national mapping project. They have incorporated central line data for the cities. She said the Tiger files in this regard can be problematic.

She said as they work with communities, centerline data are checked against aerial photos and street addresses to correct and update records. This project is in conjunction with two other major projects funded by the state i.e., the State Tax Commission project and the Interaction Board project, so that they can incorporate addresses into the Tax Commission's database and the Interaction Board database.

The concept of the data sharing agreement is that the ACOG region would own the data rights it produces and OU would own the data rights for the combined data sets of all communities and cities. OU's rights would be that they have the right to post the data on the web.

May said at anytime the ACOG region doesn't want its data to be seen by the public OU would have to revise the data agreement accordingly. She said this agreement also includes the element of the City of Moore wherein they took the data of the City of Moore to the USGS national map. She said OU can include that element in the agreement with the ACOG region as well.

Jane said as a public agency our data is already considered to be open records according to state law. Making it possible for the general public to have easy access to this data is very helpful.

Jane said the data information that will be given to OU will be scrubbed for accuracy. Jane asked if that information we send would be changed once received by OU.

Scott March, OU, said no line or data will be moved and asked for clarification as to what information is in question. He said they would add their own data elements for the tax commission and municipal boundaries.

Brad said ACOG is trying to accomplish the same thing for our communities to have a usable standardized data set.

Brad said our task is to keep the data up to date and then we send that updated data back to the PSAPs for 9-1-1 purposes. He explained that updated data is what would be sent to OU. Brad said we would be interested in any errors that OU might find.

Scott said all of their data coverages on municipal boundaries and school districts and precincts are all made on the old Tiger files.

Brad said there is now state legislation in place that requires communities to submit changes to the commission. He mentioned that we need to talk to Troy at the Tax Commission more. Scott said they work with Troy as well.

Sarah asked if their office could be kept up to date as well, because they also are required to work with the Tax Commission on some of that data. She asked how technologically that will be done – through a data service, or ARC GIS server.

Brad said that has not been determined yet. The first step is to get the agreement in place to help make this data available. He said the idea of the Consolidated Centerline Data Layer (CCDL) came to him later. He said our subcommittees will also be involved in that decision.

May said that OU's Vice President has investigated the process of purchasing new servers. Two of the new servers will be used as Internet servers. She said they begun with the GIS server, which is the Lynex version, and was not successful and are now in the process of adopting another server. The ESRI Lynex version of server is not fully functional for the desired services, she said. She said once they get a new server it probably will be one of the ARC GIS servers.

Brad said ACOG has that same initiative and has it installed internally and are beginning to develop what can be done. We would like to have synchronization with the surrounding larger cities.

Carolyn White, ACOG, reminded the group that today is the 18th anniversary of 9-1-1 coming on line on May 1, 1989.

Carolyn explained the importance of the Master Street Address Guide (MSAG) and said since technology has advanced since the last MSAG workshop in August 2003 it is necessary to hold another workshop. She said we work with the telephone companies to get the new streets incorporated into the MSAG so that it would make the address and telephone number of that resident would validate in the MSAG database. AT&T is our Automatic Location Identification (ALI) provider. It is highly important when there is new development and new streets that those are submitted to us with a plat map so they can be entered into AT&T's website and entered into their database.

Carolyn said sometimes we receive requests from telephone companies because they show addresses that won't validate and get kicked out of the database when the street information is not accurate.

Jane said this is critical when dispatching emergency service providers to the caller and the MSAG must be accurate.

Jane said the MSAG workshop is scheduled for June 19th from 9:00 a.m. until noon at ACOG.

Brad said the workshop training will include plats and new development. He said ACOG would like to show what we receive and what we need to receive to make that process better.

Brad said sometimes we receive different information. He said he would like for the Standards Subcommittee to review those items.

Brad announced that ACOG will be advertising the position of GIS Intern to be hired for the summer to make square mile maps relating to ESN boundaries for the various fire districts in the ACOG region. That information can be found on the ACOG website, he said.

VIII. NEW BUSINESS

None

IX. ADJOURNMENT

The meeting was adjourned at 9:53 a.m.



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ATTACHMENT IV

Chair Mark Sharpton
Logan County Commissioner

Vice-Chair Willa Johnson
Oklahoma County Commissioner

Secretary/Treasurer Kathy Walker
Nichols Hills Councilmember

Executive Director
Zach D. Taylor

MEMORANDUM

DATE: October 30, 2007

TO: Regional GIS Technical Committee

FROM: John Sharp, Program Coordinator TPD&S

SUBJECT: Regional Aerial Photography Project

INFORMATION: A subcommittee of the Regional GIS Technical Committee was convened to discuss issues regarding digital aerial purchases and the accuracy levels that each community requires. Purchasing regional imagery at an accuracy of 1.5 ft. pixels was suggested as a possibility. However, cost and accuracy were factors that each community would have to take into consideration before making a decision. There was some discussion into determining future purchases of imagery. Having aerials that correspond with Census year 2010 data was stated as the highest priority for some communities.

Staff conducted a brief survey to obtain a history of previous aerial purchases and future plans. This way, the full committee can propose future plans to work together to obtain a more complete regional digital aerial collection.

Action Requested: As desired by the committee.



association of central oklahoma governments

ATTACHMENT V

Chair Mark Sharpton
Logan County Commissioner

Vice-Chair Willa Johnson
Oklahoma County Commissioner

Secretary/Treasurer Kathy Walker
Nichols Hills Councilmember

Executive Director
Zach D. Taylor

MEMORANDUM

DATE: October 30, 2007

TO: Regional GIS Technical Committee

FROM: John Sharp, Program Coordinator TPD&S

SUBJECT: Regional Data Standards and OU Agreement

INFORMATION: Over the past few months there have been some meetings of the Regional Data Standards subcommittee. The discussion of this committee was focused on adhering to Open Records requests by providing the most essential data from each community, in an efficient manner. In order to be combined into a regional database, streamlining submission of data and a definition of each field in a community's database structure would be required.

The "A" classified entities (who maintain their own digital database) were contacted in order to obtain a copy of their centerline database structure and field names. The analysis of this information will be available at the November meeting.

This is part of a process to develop a Regional Data Dissemination Policy. An agreement between ACOG and the University of Oklahoma to make regional data available to the public via interactive mapping has been approved by the ACOG Board. This agreement will allow the OU-Center for Spatial Analysis (CSA) to integrate ACOG data into the state Consolidated Centerline Data Layer (CCDL). Final details on the format of the database/map to be hosted by OU-CSA are close to being finalized. Attached is the current proposed format that this committee will be asked to comment on at the November meeting.

Data added since the last GIS Technical Committee meeting includes: city left and city right, alias, edit date and ESN left and right.

Action Requested: Review and Comment.

Length

| Entity | Name | Type | Size | Description | Example |
|---------------|--------------|---------|--------|----------------|-------------|
| CCDL | Length | Numeric | Double | Length of Line | 0.00321 |
| ACOG | SHAPE_Length | Double | 8 | Length of Line | 1766.86 |
| Norman | LENGTH | Numeric | Double | Length of Line | 2461.135498 |
| Edmond | LENGTH | Double | 8 | Length of Line | |
| Midwest City | SHAPE_Length | | | | |
| Oklahoma City | SHAPE.len | Numeric | Double | Length of Line | 311.3905994 |
| Moore | LENGTH | ? | ? | Length of Line | 283.9669 |
| Yukon | LENGTH | Numeric | ? | Length of Line | 986.54149 |
| Newcastle | N/A | | | | |

Source

| Entity | Name | Type | Size | Description | Example |
|---------------|-------------|------|------|----------------------|----------|
| CCDL | Source | Text | 1 | Source | O |
| ACOG | SOURCE | Text | 20 | Data Source | OKCY1 |
| Norman | N/A | | | | |
| Edmond | ORIG_SOURCE | Text | 16 | Original Data Source | |
| Midwest City | InfoSource | Text | 2 | Source of data | 1 |
| Oklahoma City | N/A | | | | |
| Moore | SOURCE | Text | ? | Source | ORIGINAL |
| Yukon | SOURCE | Text | ? | Source | A |
| Newcastle | N/A | | | | |

Predirectional

| Entity | Name | Type | Size | Description | Example |
|---------------|---------|--------|------|-----------------------------|---------|
| CCDL | FEDIRP | Text | 2 | Feature Direction Pre | N |
| ACOG | PRE_DIR | Text | 10 | Feature Direction Pre | |
| Norman | FDPRE | Text | 2 | Feature Direction Prefix | E |
| Edmond | PRE_DIR | String | 2 | Street Prefix Direction | |
| Midwest City | PreDir | Text | 2 | PreDirection of street name | NE |
| Oklahoma City | FDPRE | Text | 2 | Feature Prefix | NE |
| Moore | FEDIRP | Text | ? | Feature Direction Pre | NW |
| Yukon | FEDIRP | Text | 2 | Feature Direction Pre | W |
| Newcastle | FEDIRP | Text | 2 | Feature Direction Pre | N |

Name

| Entity | Name | Type | Size | Description | Example |
|---------------|------------|--------|------|----------------|-----------|
| CCDL | FENAME | Text | 30 | Feature Name | RENO |
| ACOG | STREET | Text | 50 | Street Name | PEEBLY |
| Norman | FNAME | Text | 40 | Feature Name | BURLWOOD |
| Edmond | ST_NAME | String | 40 | Street Name | |
| Midwest City | StreetName | Text | 30 | Name of Street | RENO |
| Oklahoma City | FNAME | Text | 30 | Feature Name | 23rd |
| Moore | FENAME | Text | ? | Feature Name | Lakecrest |
| Yukon | FENAME | Text | ? | Feature Name | Wilshire |
| Newcastle | FENAME | Text | ? | Feature Name | Wilshire |

Feature Type

| Entity | Name | Type | Size | Description | Example |
|---------------|------------|--------|------|---------------------|---------|
| CCDL | FETYPE | Text | 4 | Feature Street Type | Ave |
| ACOG | TYPE | Text | 10 | Feature Street Type | Ave |
| Norman | FTYPE | Text | 4 | Feature Street Type | AVE |
| Edmond | ST_TYPE | String | 4 | Street Type | |
| Midwest City | StreetType | Text | 4 | Street Type | AVE |
| Oklahoma City | FTYPE | Text | 4 | Feature Street Type | ST |
| Moore | FETYPE | Text | ? | Feature Street Type | Dr |
| Yukon | FETYPE | Text | ? | Feature Street Type | Blvd |
| Newcastle | FETYPE | Text | ? | Feature Street Type | Blvd |

Feature Suffix

| Entity | Name | Type | Size | Description | Example |
|---------------|----------|------|------|-------------------------------|---------|
| CCDL | FEDIRS | Text | 2 | Feature Direction, Suffix | W |
| ACOG | POST_DIR | Text | 10 | Feature Direction, Suffix | W |
| Norman | FDSUF | Text | 2 | Feature Direction, Suffix | SE |
| Edmond | N/A | | | | |
| Midwest City | PostDir | Text | 2 | Post Direction of street name | W |
| Oklahoma City | N/A | | | | |
| Moore | N/A | | | | |
| Yukon | N/A | | | | |
| Newcastle | N/A | | | | |

CFCC

| Entity | Name | Type | Size | Description | Example |
|---------------|-------------|--------|------|------------------------------------|---------|
| CCDL | CFCC | Text | 3 | Census Feature Classification Code | A41 |
| ACOG | CLASS | Text | 6 | Census Feature Classification Code | A21 |
| Norman | CFCC | Text | 3 | Census Feature Classification Code | A40 |
| Edmond | ST_CLASS | String | 3 | Census Feature Classification Code | A41 |
| Midwest City | StreetClass | Text | 2 | Classification of Street | PA |
| Oklahoma City | CFCC | Text | 3 | Census Feature Classification Code | A41 |
| Moore | N/A | | | | |
| Yukon | CFCC | Text | ? | Census Feature Classification Code | A41 |
| Newcastle | N/A | | | | |

From Address Left

| Entity | Name | Type | Size | Description | Example |
|---------------|-----------|---------------|--------|--------------------------|---------|
| CCDL | FRADDL1 | Numeric | Double | Cline From Address Left | 1101 |
| ACOG | F_L_ADD | Double | 8 | From Address Range, Left | 1101 |
| Norman | FRADDL1 | Integer | 4 | Cline From Address Left | 1200 |
| Edmond | FRADDL | Double | 8 | From Address Left | |
| Midwest City | FromAddrL | Small Integer | | Left from address number | 1101 |
| Oklahoma City | LEFTADD1 | Numeric | Long | From Address Left | 2 |
| Moore | FROMLEFT | ? | ? | Cline From Address Left | 901 |
| Yukon | FRADDL | ? | ? | Cline From Address Left | 15399 |
| Newcastle | FRADDL | ? | ? | Cline From Address Left | 15399 |

To Address Left

| Entity | Name | Type | Size | Description | Example |
|---------------|----------|---------|--------|------------------------|---------|
| CCDL | TOADDL1 | Numeric | Double | Cline To Address Left | 1217 |
| ACOG | T_L_ADD | Doubele | 8 | To Address Range, Left | 1217 |
| Norman | TOADDL | Integer | 4 | Cline To Address Left | 1598 |
| Edmond | TOADDL | Double | 8 | To Address Left | |
| Midwest City | ToAddrL | Integer | | Left to address number | 1199 |
| Oklahoma City | LEFTADD2 | Numeric | Long | To address left | 98 |
| Moore | TOLEFT | ? | ? | Cline To Address Left | 913 |
| Yukon | TOADDL | ? | ? | Cline To Address Left | 15225 |
| Newcastle | TOADDL | ? | ? | Cline To Address Left | 15225 |

From Address Right

| Entity | Name | Type | Size | Description | Example |
|---------------|-----------|---------|--------|---------------------------|---------|
| CCDL | FRADDR1 | Numeric | Double | Cline From Address Right | 1100 |
| ACOG | F_R_ADD | Duble | 8 | From Address Range, Right | 1100 |
| Norman | FRADDR | Integer | 4 | Cline From Address Right | 1201 |
| Edmond | FRADDR | Double | 8 | From Address Left | |
| Midwest City | FromAddrR | Integer | | Right from address number | 1100 |
| Oklahoma City | RGTADD1 | Numeric | Long | From Address Right | 1 |
| Moore | FROMRIGHT | ? | ? | Cline From Address Right | 900 |
| Yukon | FRADDR | ? | ? | Cline From Address Right | 16076 |
| Newcastle | FRADDR | ? | ? | Cline From Address Right | 16076 |

To Address Right

| Entity | Name | Type | Size | Description | Example |
|---------------|---------|---------|--------|-------------------------|---------|
| CCDL | TOADDR1 | Numeric | Double | Cline To Address Right | 1216 |
| ACOG | T_R_ADD | Double | 8 | To Address Range, Right | 1218 |
| Norman | TOADDR | Integer | 4 | Cline To Address Right | 1599 |
| Edmond | TOADDR | Double | 8 | To Address Right | |
| Midwest City | ToAddrR | Integer | | Right to Address Number | 1098 |
| Oklahoma City | RGTADD2 | Numeric | Long | To ADDRESS Right | 99 |
| Moore | TORIGHT | ? | ? | Cline To Address Right | 908 |
| Yukon | TOADDR | ? | ? | Cline To Address Right | 15224 |
| Newcastle | TOADDR | ? | ? | Cline To Address Right | 15224 |

ZIP Code Left

| Entity | Name | Type | Size | Description | Example |
|---------------|--------------|---------|--------|------------------------------|---------|
| CCDL | ZIPL | Numeric | Double | Zip Code Left | 74103 |
| ACOG | NA | | | | |
| Norman | NA | | | | |
| Edmond | ZIPCODE_LEFT | Text | 10 | Zip Code Left Side of Street | 73003 |
| Midwest City | NA | | | | |
| Oklahoma City | NA | | | | |
| Moore | ZIPLEFT | ? | ? | Zip Code Left | 73160 |
| Yukon | ZIPL | ? | ? | Zip Code Left | 73099 |
| Newcastle | ZIPL | ? | ? | Zip Code Left | 73065 |

ZIP Code Right

| Entity | Name | Type | Size | Description | Example |
|---------------|-------------|---------|--------|-------------------------------|---------|
| CCDL | ZIPR | Numeric | Double | Zip Code Right | 74103 |
| ACOG | N/A | | | | |
| Norman | N/A | | | | |
| Edmond | ZIPCODE_RGT | Text | 10 | Zip Code Right Side of Street | 73003 |
| Midwest City | N/A | | | | |
| Oklahoma City | N/A | | | | |
| Moore | ZIPRIGHT | ? | ? | Zip Code Right | 73160 |
| Yukon | ZIPR | ? | ? | Zip Code Right | 73099 |
| Newcastle | ZIPR | ? | ? | Zip Code Right | 73065 |

County Left

| Entity | Name | Type | Size | Description | Example |
|---------------|---------|---------|--------|-------------|---------|
| CCDL | COUNTYL | Numeric | Double | County Left | 40017 |
| ACOG | LCOUNTY | Text | 10 | County Left | CACO |
| Norman | N/A | | | | |
| Edmond | N/A | | | | |
| Midwest City | N/A | | | | |
| Oklahoma City | N/A | | | | |
| Moore | N/A | | | | |
| Yukon | N/A | | | | |
| Newcastle | N/A | | | | |

County Right

| Entity | Name | Type | Size | Description | Example |
|---------------|---------|---------|--------|--------------|---------|
| CCDL | COUNTYR | Numeric | Double | County Right | 40017 |
| ACOG | RCOUNTY | Text | 10 | County Right | CACO |
| Norman | NA | | | | |
| Edmond | N/A | | | | |
| Midwest City | NA | | | | |
| Oklahoma City | NA | | | | |
| Moore | N/A | | | | |
| Yukon | NA | | | | |
| Newcastle | N/A | | | | |

Object ID

| Entity | Name | Type | Size | Description | Example |
|---------------|-----------|--------------|--------|-------------------------------|----------|
| CCDL | FID | Numeric | Double | Feature Identification | 69 |
| ACOG | OBJECTID | Long Integer | 4 | Object Identification Number | 72203 |
| Norman | OBJECTID | Long Integer | 4 | Object Identification Number | 5198 |
| Edmond | OBJECTID | Double | 8 | Internal feature number | |
| Midwest City | OBJECTID | | | | |
| Oklahoma City | STREET_ID | Numeric | Long | Unique Code For Every Feature | 11111 |
| Moore | OID | ? | ? | Object Identification Number | 0 |
| Yukon | TLID | ? | ? | Object Identification Number | 92526801 |
| Newcastle | TLID | ? | ? | Object Identification Number | 92526801 |

MEMORANDUM OF AGREEMENT

THIS AGREEMENT, made and entered into this _____ day of _____, 2007, is by and between the Board of Regents of the University of Oklahoma, by and through the Center for Spatial Analysis, hereinafter referred to as "OU-CSA" and the Association of Central Oklahoma Governments and 9-1-1 Association of Central Oklahoma Governments, hereinafter referred to as the "ACOG".

WHEREAS, the ACOG has provided OU-CSA the Regional CCDL within ACOG 9-1-1 and transportation boundaries, and

WHEREAS, OU-CSA has incorporated the ACOG road data and other data sets into the creation of a Consolidated Centerline Data Layer (CCDL) for the State of Oklahoma as part of the State's geographic information system (GIS) digital infrastructure base maps, and

WHEREAS, OU-CSA utilizes the CCDL to update addresses, voting districts and tax districts for Oklahoma State Election Board and Oklahoma Tax Commission, and

WHEREAS, OU-CSA is the online distributor of the CCDL as well as numerous related data layers (e.g., school districts, political districts, municipal boundaries, etc.) through the Oklahoma Data Warehouse and Mapper (www.csa.ou.edu) and the United States Geological Survey's National Map program (www.nationalmap.gov),

WHEREAS, ACOG maintains GIS data within the central Oklahoma metropolitan area,

NOW, THEREFORE, in consideration of the mutual promises and covenants contained herein, OU-CSA and ACOG hereby agree as follows:

I Definition of Terms and Ownership Information

A. University of Oklahoma's Center for Spatial Analysis: The owner of the Consolidated Centerline Data Layer (CCDL).

B. Oklahoma Data Warehouse and Mapper: An online data access and distribution facility, owned and managed by OU-CSA, for both batch and interactive access to a variety of public domain data layers.

C. The National Map: An online data access and distribution facility that is owned by the United States Geological Survey.

D. ACOG: The owner of the ACOG Regional CCDL GIS roads data used in the creation of the state CCDL.

II Term of Agreement

A. Initial Term. This agreement shall commence on July 1, 2007 and shall expire on June 30, 2008, unless sooner termination as provided herein.

B. Renewal. This agreement may be renewed with the written mutual consent of both parties hereto for an unlimited number of successive one-year periods following the initial term. Both parties shall agree in writing to any terms that would cause an increase to either party in the cost of any part of this agreement. Any effort undertaken by either party without such agreement shall be at their own expense.

C. Assignment. This contract shall not be assigned without the prior written permission of the party.

D. Termination. Either party may terminate this agreement without cause at any time by giving ninety (90) days written notice to either party

E. The parties agree that the terms of this Agreement shall be fully implemented on or before July 1, 2007.

III Scope of the Data Sharing Agreement

- A.** ACOG provided to OU-CSA a copy of Regional CCDL within ACOG 9-1-1 and transportation boundaries. This copy was provided in the ACOG ESRI data layer format that is described in Exhibit A.
- B.** OU-CSA incorporated the data set into the creation of the state Consolidated Centerline Data Layer (CCDL). The state CCDL will be loaded to the Oklahoma Data Warehouse and Mapper for access by the public, in the format that is specified in Exhibit B. By extension, the updated data layer also will be incorporated into the National Map.
- C.** The Oklahoma Data Warehouse and Mapper will implement and maintain appropriate disclaimers (e.g., “Neither The ACOG nor the University of Oklahoma accepts liability for any omissions or errors in the information provided...”) as part of the online data access as well as within the metadata that is provided for the state CCDL.
- D.** OU-CSA will use the CCDL to update the Oklahoma address range master table that is used for identifying voter registration assignments and sales tax calculations for all known addresses within Oklahoma. A copy of this table for ACOG region will be provided to ACOG in the format identified in Exhibit B if desired.
- E.** OU-CSA permits ACOG to use the OU-CSA data which are a direct result of this project and the use of the ACOG’s data, all or in part, along with other sources at the ACOG’s disposal to create, update and maintain its GIS data in a manner it sees fit. The resulting GIS data created by ACOG are owned by ACOG without restriction imposed by OU-CSA.
- F.** ACOG provided and permits OU-CSA to use the GIS roads data within Moore City Limits, all or in part, along with other sources at the OU-CSA’s disposal to create, update and maintain its Consolidated Centerline Data Layer in a manner it sees fit. The resulting state Consolidated Centerline Data Layer is owned by OU-CSA without restriction imposed by ACOG.

IV Amendments

This agreement may be amended only upon written agreement of both parties.

V Warranties, Liabilities and Damages

- A.** OU-CSA makes no warranty of any kind, expressed or implied, as to the use or appropriateness of the use of the state Consolidated Centerline Data Layer, including, but not limited to, warranties of merchantability or fitness for a particular purpose or with respect to accuracy. ACOG acknowledges that OU-CSA does not guarantee or warrant that the Consolidated Centerline Data Layer data are complete or current and ACOG further acknowledges that the Consolidated Centerline Data Layer data are subject to constant change. Any use of this Consolidated Centerline Data Layer is done at the sole risk and liability of ACOG.
- B.** OU-CSA shall not be subject to liability for human errors, defect or failure of machines, or any material used in connection with the machines, including, but not limited to, tapes, disks, and CD's.

- C. In no event, shall OU-CSA be liable for lost profits, consequential damages, or claims against third parties.
- D. ACOG makes no warranty of any kind, expressed or implied, as to the use or appropriateness of the use of ACOG's GIS roads data, by OU-CSA including, but not limited to, warranties of merchantability or fitness for a particular purpose or with respect to accuracy. OU-CSA acknowledges that the ACOG does not guarantee or warrant that their roads data is complete or current and OU-CSA further acknowledges that ACOG's roads data is subject to constant change. Any use of ACOG's roads data is done at the sole risk and liability of OU-CSA.
- E. ACOG shall not be subject to liability for human errors, defect or failure of machines, or any material used in connection with the machines, including, but not limited to, tapes, disks, CD's and DVD's.
- F. In no event, shall ACOG be liable for lost profits, consequential damages, or claims against third parties.

VI Indemnification

- A. ACOG hereby agrees to indemnify and hold OU-CSA, its employees, agents and officials harmless from any claim, suit, proceeding or damages of any kind arising out of the use of the Consolidated Centerline Data Layer provided under this agreement including, but not limited to, attorneys' fees, any costs of recovering, reprogramming or reproducing any programs or data stored in or used with Consolidated Centerline Data Layer data, damage to property, damages for personal injury or for any lost profits, lost savings, or other special, incidental or consequential damages arising out of the use of or inability to use the Consolidated Centerline Data Layer data, even if said parties have been advised of the possibility of such damages.
- B. To the extent allowable by law, OU-CSA hereby agrees to indemnify and hold ACOG, its employees, agents and officials harmless from any claim, suit, proceeding or damages of any kind arising out of the use of ACOG's roads data provided under this agreement including, but not limited to, attorneys' fees, any costs of recovering, reprogramming or reproducing any programs or data stored in or used with ACOG's roads data, damage to property, damages for personal injury or for any lost profits, lost savings, or other special, incidental or consequential damages arising out of the use of or inability to use the ACOG's roads data, even if said parties have been advised of the possibility of such damages.

VII Governing Law

This Agreement shall be governed by the laws of the State of Oklahoma.

VIII Contacts

The points of contact for this agreement are the following.

University Technical:

Dr. May Yuan, Director

Center for Spatial Analysis

University of Oklahoma

100 E. Boyd Street, SEC 410

Norman, OK 73019

Email: 108may@gmail.com

University Administrative:
Andrea Deaton, CRA
Executive Director
Office of Research Services
University of Oklahoma
731 Elm Avenue, Robertson Hall 134
Norman, OK 73019-2115
Phone: (405) 325-4757
Fax: (405) 325-6029
Email: adeaton@ou.edu

Sponsor Technical/Administrative:
Stephen M. Willoughby
ACOG
21 E. Main Street, Suite 100
Oklahoma City, OK 73104

These individuals will oversee the implementation of, and may make minor mutually agreeable changes to this MOA.

IX Attachments

Exhibit "A" ESRI Data format for ACOG input data set of roadways data within ACOG 9-1-1 and Transportation area boundaries.

Exhibit "B" Data format for the public release of the Consolidated Centerline Data Layer

X Signatories

The parties agree to share and exchange these data pursuant to this agreement. This agreement shall be effective from the date written below and continue through June 30, 2008.

Board of Regents of the University of Oklahoma

Andrea Deaton, CRA
Executive Director, Office of Research Services
University of Oklahoma

Date

READ AND UNDERSTOOD:

May Yuan, Ph.D.
Principal Investigator
Director, Center for Spatial Analysis
University of Oklahoma
Sponsor Technical/Administrative:

Date

Zach D. Taylor
9-1-1 ACOG Executive Director

Date

John G. Johnson, 9-1-1 ACOG Legal Counsel

Date

Zach D. Taylor
ACOG Executive Director

Date

John G. Johnson, ACOG Legal Counsel

Date

EXHIBIT A
ESRI Data format for the ACOG
Input Dataset of Roadways and other data sets within ACOG study boundaries

| <u>COLUMN</u> | <u>DESCRIPTION</u> | <u>FORMAT</u> |
|---------------|------------------------------------|-----------------|
| PRE_DIR | Feature Direction Pre | Text, 10 |
| STREET | Street Name | Text, 50 |
| TYPE | Feature Street Type | Text, 10 |
| POST_DIR | Feature Direction, Suffix | Text, 10 |
| F_L_ADD | From Address Range, Left | Numeric, Double |
| T_L_ADD | To Address Range, Left | Numeric, Double |
| F_R_ADD | From Address Range, Right | Numeric, Double |
| T_R_ADD | To Address Range, Right | Numeric, Double |
| CLASS | Census Feature Classification Code | Text, 6 |
| ALIGN | Geometry Change Date | Date |
| ALIGNER | Geometry Change Initials | Text, 10 |
| EDIT | Attribute Change Date | Date |
| EDITOR | Attribute Change Initials | Text, 10 |
| TRACKING | Change Tracking Number | Text, 12 |
| LCITY | City Left | Text, 10 |
| TCITY | City Right | Text, 10 |
| LCOUNTY | County Left | Text, 10 |
| RCOUNTY | County Right | Text, 10 |
| ONE_WAY | One Way Indicator | Short Int, 5 |
| ROUTING | Use For Routing | Text, 3 |
| LINK_NO | Routing Link Number | Numeric, Double |
| SOURCE | Data Source | Text, 20 |
| NOTES | Notes | Text, 100 |
| ST_CLASS | Local Street Classification | Long Int, 10 |
| GS911FAFLD | Combined Street Name | Text, 65 |
| SHAPE | Geometry Type | Geometry |
| SHAPE.LEN | Length of Line | Numeric, Double |

EXHIBIT B
Data Format for the Public Release of the
Consolidated Centerline Data Layer

| <u>COLUMN</u> | <u>DESCRIPTION</u> | <u>FORMAT</u> |
|----------------------|------------------------------------|----------------------|
| LENGTH | Length of Line | Numeric, Double |
| TLID | Tiger Line ID | Numeric, Double |
| SOURCE | Source | Text, 1 |
| FEDIRP | Feature Direction Pre | Text, 2 |
| FENAME | Feature Name | Text, 30 |
| FETYPE | Feature Street Type | Text, 4 |
| FEDIRS | Feature Direction, Suffix | Text, 2 |
| NAME | Street Name | Text, 50 |
| CFCC | Census Feature Classification Code | Text, 3 |
| FRADDL | Tiger From Address Left | Text, 11 |
| TOADDL | Tiger To Address Left | Text, 11 |
| FRADDR | Tiger From Address Right | Text, 11 |
| TOADDL | Tiger To Address Right | Text, 11 |
| FRADDL1 | Cline From Address Left | Numeric, Double |
| TOADDL1 | Cline To Address Left | Numeric, Double |
| FRADDR1 | Cline From Address Right | Numeric, Double |
| TOADDL1 | Cline To Address Right | Numeric, Double |
| ZIPL | Zip Code Left | Numeric, Double |
| ZIPR | Zip Code Right | Numeric, Double |
| COUNTYL | County Left | Numeric, Double |
| COUNTYR | County Right | Numeric, Double |