AL NG911 System and Services RFP
AL-NG911-RFP-16-001
Addendum 1
Question and Answer Responses
2-19-2016

Question No.	DOC NAME (RFP or Attachment)	PAGE # OR SECTION #	RESPONDENTS QUESTION	RESPONSE
1	1-AL-NG911-RFP-16-001-SECTION1-GENERAL-INSTRUCTIONS-FINAL(2)	4	……hereby requests that the deadline for submitting the proposal be extended by 3 weeks, to March 25th, 2016.	The due date for responses to this RFP will remain 3-4-2016. No extension will be granted at this time.
2	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		Please detail the maximum concurrent call volume (wireless, wireline, voip) for each PSAP	The Board does not maintain this information. Please refer to Appendix A of this document.
3	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		How many DS0's are terminated at each Wireless Aggregation Point?	Please refer to Appendix A of this document.
4	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		How many DS0's are terminated at each existing legacy Selective Router?	Please refer to Appendix A of this document.
5	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		Please list all States, ESInets and out of state legacy Selective Routers that the State of Alabama requires call transfer to and from	Please refer to Attachment D – Technical Specifications, Sections 1-8. Specific LSRs and points of demarcation for interstate interconnection would be at the discretion of the contracted service provider or as directed by the Board.

				Any legal or regulatory agreements that may be required to facilitate or support the ability to transfer ANGEN traffic in state or to contiguous states will be the responsibility of the contracted service provider.
6	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		Please inventory and detail the current equipment used at the wireless aggregation points? Please include make, model, software load and current maintenance provider and warranty (if any) information along with termination dates for maintenance and warranty	Please refer to Appendix A of this document. The Board does not maintain this information.
7	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications	6.1	What are the current SLA's being used in the ANGEN network operation?	There are no current SLAs to provide on behalf of the Board.
8	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		Please provide the physical address of the two data centers	Please refer to Appendix A of this document.
9	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		What additional data applications do you intend to use on the ESInet? And, what bandwidth do you expect each of these data applications to require?	Please refer to AL-NG911-RFP-16-001 Attachment D Sections 1 through 8.
10	AL-NG9-1-1-RFP-16-001		How do you intend for CJIS (NCIC/NLETS) traffic	It is the expectation of the Board that any ESInet

	ATTACHMENT D- Technical Specifications		to utilize the ESInet? Who is the current provider in AL of NCIC access? And how is it currently configured and delivered at each PSAP?	services provided under contract would also be capable of transporting CJIS data to and from the connected PSAPS. In order to meet this expected level of service, any proposed ESInet solution must apply CJIS policy to all traffic, and you must provide a description of each element outlined in the bullet points in Section 2.6 ANGEN Network Security. The CJIS policy covers all aspects of the network operation and is not traffic dependent. They may be found at http://www.fbi.gov/about-us/cjis/cjis-security-policy-resource-center/view.
11	Attachment C – Cost Proposal		Is there a mechanism to propose "optional" value-added elements that may be of interest that will not impact the base price for the required solution?	If you wish to add optional or value added services to your proposal please do so under the appropriate section of the RFP and where relevant to the requirements sought by the Board. Please refer to AL-NG911-RFP-16-001 Attachment D – Technical Specifications Section 1 for additional instructions.
12	Attachment C – Cost Proposal		Instructions state rows may be added to include any Other Required	If the worksheet as downloaded is not working

			Items. As the sheets are password protected, is there an alternate method to include additional items?	properly, please contact Leah@al911board.com
13	AL-NG911-RFP-16-001-Attachment-A-Sample Contract-FINAL (002).docx	P.7 Sec. 22	Section 22 says that any lawsuit must be brought in the Circuit Court of Montgomery Alabama. Would the State be willing to amend the paragraph to also permit suit, in an appropriate circumstance, in a Federal Court with jurisdiction and venue over the suit?	No.
14	AL-NG911-RFP-16-001-Attachment-A-Sample Contract-FINAL (002).docx	P.7 Sec. 23	Would the state be willing to negotiate this Indemnification clause to identify with more specificity the kinds of injury that would be subject to the clause as well as to address applicable standards of conduct?	Yes.
15	AL-NG911-RFP-16-001-Attachment-A-Sample Contract-FINAL (002).docx	P.10 Sec. 34	In reference to Paragraph 34 of the Sample Contract, does the State adhere to the Prompt Payment Act (Alabama Code Section 41-16-3)?	Yes, please refer to Addendum 3.
16	AL-NG9-1-1-RFP-16-001 ATTACHMENT D- Technical Specifications		Please provide the number of positions at each PSAP	The Board does not maintain this information.

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1	General Instructions	Page 4, Section 1.3; Page 9, Section 1.16	The proposal due date is one week after questions are answered. Since answers to questions may influence design and pricing, would the Board be willing to extend the proposal deadline two weeks to March 18, 2016?	The due date for responses to this RFP will remain 3-4-2016. No extension will be granted at this time.
2	Attachment A, Sample Contract	Page 8, Section 25.A.6	We note that Section 25.A.6 of the sample contract refers to surety and fidelity bonding. Please confirm the exact type, amount and form of bonding that would be required for this project.	The Board may, at its option, require a performance bond for contracted system services provided by a contracted service provider. The determination for a performance bond and any specifics as to amount etc. would be negotiated by the parties during contract negotiations that may or may not result from AL-NG911-RFP-16-001
3	Attachment C, Cost Proposal	Schedule 2-6 Tab	How should we capture optional components in Schedules 2-6?	If you reflect optional service costs in the total costs shown on Schedules 2-6 then be prepared to explain the additional costs, optional or not.

				If you are going to propose optional services not detailed in Schedule 1 costs, then provide details of the optional services and costs in your cost assumptions narrative portion of the cost proposal you submit.
4	Attachment D, Technical Specifications	Page 8, Section 1.4	Please describe the capabilities of the current ANGEN network with regard to QoS, latency, jitter, and packet loss.	Please refer to Appendix A of this document.
5	Attachment D, Technical Specifications	Page 9, Section 1.4	Please describe the current technical support methodology of ANGEN. For instance, what monitoring and troubleshooting tools are available for operation of a 9-1-1 network?	Please refer to Appendix A of this document.
6	Attachment D, Technical Specifications	Page 9, Section 1.4	What is the signaling protocol between the ASA and selective routers?	Please refer to Appendix A of this document.
7	Attachment A, Sample Contract	Page 12, Non-Collusion and Acceptance	Please confirm that the Non-Collusion and Acceptance language included at the end of the Sample Contract is not intended to preclude payment of standard sales commissions to internal employees, as applicable. As presently worded there does not appear to be such a typical carve-out, so for clarity we would	The Non-collusion and Acceptance Language is not intended to preclude payment of standard sales commissions to internal employees of a vendor.

			request that this be clarified in the language.	
8	Attachment D, Technical Specifications	Page 4, Section 1	Please provide a diagram of the as-built network serving the PSAPs.	The Board does not maintain this information.
9	Attachment D, Technical Specifications	Page 4, Section 1	Does Alabama want ANI/ALI fees currently being paid to the provider included in this bid?	It is the expectation of the Board that all costs or fees associated with providing services related to the requirements of this RFP would be included in the monthly recurring service fee submitted in Attachment C – Cost Proposal.
10	Attachment D, Technical Specifications	Page 16, Section 2	If Alabama has any PSAP call takers being served by IP, what is the breakout of IP-enabled PSAPs vs CAMA served PSAPs?	Please refer to Appendix A of this document.
11	Attachment D, Technical Specifications	Page 16, Section 2	What types of CPE and call taker hardware/software (vendors, product) does Alabama have currently running across its PSAPs?	Please refer to Appendix A of this document.
12	Attachment D, Technical Specifications	Page 16, Section 2	How many PSAPs are currently served by a host/remote type of CPE/call taker implementation?	Please refer to Appendix A of this document.

13	Attachment D, Technical Specifications	Page 16, Section 2	Does the ANGEN network reach the PSAPs? If yes, how many of the PSAPs are served by this network? What is the bandwidth/speed at each PSAP served by this network?	No, the current ANGEN network does not interface at the PSAP.
14	Attachment D, Technical Specifications	Page 16, Section 2	Please provide PSAP addresses for quoting network services to each location.	Please refer to Appendix A of this document. Specific PSAP addresses will not be shared at this point in the procurement process. Estimated pricing for these services are expected and may or may not change as specifically contracted services are determined and awarded by contract negotiation.
15	Attachment D, Technical Specifications	Page 16, Section 2	Please provide desired trunking capacity (ingress) for the state per LSR.	Please refer to Appendix A of this document.
16	Attachment D, Technical Specifications	Page 16, Section 2	Please provide PSAP trunking (egress) needs per PSAP.	Please refer to Appendix A of this document.
17	Attachment D, Technical Specifications	Page 16, Section 2	Should the PSAP accept IP or is LPG needed per location based on CPE requirements?	Please refer to Appendix A of this document.

18	Attachment D, Technical Specifications	Page 16, Section 2	How much available rack space does ASA Huntsville and ASA Montgomery have to collocate equipment by another telco?	Please refer to Appendix A of this document. Specific locations and agreements for colocation of a contracted service provider's equipment would be the responsibility of the contracted service provider. The Board is requiring the use of existing circuit terminations, not necessarily the facilities those terminations reside in. If a respondent wishes to extend the terminations and not collocate the entire system in the current facilities, then provide sufficient explanation in your proposed solution as to how or why this better achieves a cost savings or satisfies requirements. If a respondent wishes to maintain presence at the current Huntsville and Montgomery data centers, then the Board will work with the contracted service provider to negotiate any new or amended agreements for space, services, access etc.
19	Attachment D, Technical Specifications	Page 18, Section 2.3	Which PSAPs have diverse entries?	The Board does not maintain this information. The design requirement for PSAP connectivity is as much

				diversity and redundancy as is practicable. Alternative solutions for those locations that lack route diversity or building entry diversity are expected in any proposal providing ESInet services to PSAPs. Examples might include commercial LTE systems, or commodity cable connections.
20	Attachment D, Technical Specifications	Page 23, Section 2.4.8.1	Alabama has requested that the minimum access portion of the network from the ESInet to the PSAP be 10 Megabits. Would Alabama prefer to use an initial lower bandwidth then eventually grow to 10 Mb in order to reduce cost?	The Board would encourage any and all options or approaches that either reduce costs, produce economies of scale at state and local levels, or leverages existing investments, connections, agreements etc.
21	Attachment D, Technical Specifications	Page 30, Section 3.2	Please describe the type of desired capability when interconnecting with service providers in states other than Alabama.	Please refer to AL-NG911-RFP-16-001 Attachment D Sections 1 through 8
22	Attachment D, Technical Specifications	Page 41, Section 5	If, based on the bid responses, Alabama determines that it is in the best interest of the State to make multiple awards, will Alabama do so? For example, would Alabama consider a separate award	The Board reserves the right to make multiple awards.

			for the statewide data reporting solution only?	
23	Attachment A, Sample Contract	Page 8, Section 25.A.6	Was any bonding required from or provided by the existing/prior provider of network services for the operation of the ANGEN Network serving the PSAPs of Alabama? If so, what type and amount?	No.
24	Attachment B, Business Proposal; General Instructions	Business Proposal Tab, Section 2.3.3; Page 12, Section 2.3.3	Attachment B requires 2 years of financial statements while General Instructions requires 5 years of financial statements. Does the Board require 2 years of financial statements for the General Instructions?	5 years of financial statements is the requirement for financials.

Question No.	**DOC NAME (RFP or Attachment)**	**PAGE # OR SECTION #**	**RESPONDENTS QUESTION**	**RESPONSE**
1	Attachment D	Section 4.9	Does ANGEN intend to keep their current ALI provider/solution and wish to add a LIS or do they intend to replace the ALI provider/solution with an LDB comprised of an ALI/LIS function?	Please refer to AL-NG911-RFP-16-001 Attachment D Section 4 for specific requirements related to ALI, LIS and other LDB services.
2	Attachment D	Section 3.3	Does the state desire to have its own TCC (provided by the respondent) with	The expectation would be for all AL PSAPs to use or eventually use the TCC

			connectivity for wireless carriers/other TCCs or would they allow PSAPs to connect to the existing TCC providers?	services provided under contract.
3	Attachment D	Section 2.6.3 Network Security Standards	How does State of Alabama anticipate bidder applying FBI CJIS security policy? Should the policy be applied as outlined in the CJIS policy itself,, specifically its section 1.1 "Purpose"?	Yes, the policy should be applied as outlined in the policy itself for all network components and services.
4	Attachment D	Section 4.9	How may Landline TNs are there currently?	The Board does not maintain this information.
5	Attachment D	Section 4.9	Is there only one ALI Database today? (if not how is is broken out?)	There are multiple service providers in AL. The Board does not maintain this information.
6	Attachment D	Section 4.9	Is there a central MSAG for the State of Alabama? if not how is it broken out currently?	The Board does not maintain this information. There is no central MSAG for AL. MSAGs are maintained at the local/ECD level and in coordination with each PSAPs 911 Service Provider
7	Attachment D	Section 4.9	How many Landline Telephone Companies do business in AL?	The Board does not maintain this information. Here is a link to more information regarding AL

				service providers. http://www.psc.state.al.us/ telecom/TelcodbsrvForm3.asp
8	Attachment D	Section 4.9	How many ALI Discrepancies and No Record Founds were there in 2015?	The Board does not maintain this information.
9	Attachment D	Section 4.9	Are there any Private Switch ALI (PS/ALI) Customers? If so, How many?	The Board does not maintain this information.
10	Attachment D	Section 2.3.1	Will the existing LEC owning the existing Selective Routers continue to aggregate 911 traffic from existing CLEC and ILEC End office 911 trunks?	The Board would encourage this as an example of reusing existing infrastructure and agreements to reduce costs. However, all proposals are required to explain how the proposed system will interconnect and transport all forms of 911 traffic regardless of originating service provider. This would apply to all scenarios, including legacy connections regardless of the involvement of traditional providers. Please refer to AL-NG911-RFP-16-001 Attachment D Section 4 for specific requirements for legacy connections.

11	Attachment D	Section 2.3.1	Will the State of Alabama mandate for all LEC, CLEC and ILEC to rehome their 911 trunks to the new POI at each Data center?	The Board will work in concert with the contracted service provider(s) as necessary to facilitate the interconnection and transport of ANGEN traffic on both the ingress and egress portions of the system.
12	Attachment D	Section 2.1	We understand there are 88 ECD's in the state. Does each ECD maintain its own individual 9-1-1 GIS dataset? If not, how many authoritative entities are there in the state for 9-1-1 GIS data?	The Board does not maintain this information. Generally speaking yes, GIS data is maintained at the local PSAP level. Specific information on numbers of entities is not known at this time.
13	Attachment D	Section 4.3	This section states that the ECRF must support location error correction. Please clarify what is meant be location error correction.	The ECRF must include a capability to update address records on an ad hoc basis, such as addresses that may be inaccurate - by those with authorization to ensure call routing data is accurate. A description of how the ECRF can be updated should be included with the proposal.
14	Attachment D	4.3	As the GIS data to be used in the ECRF is handled locally throughout the state, what research has been done on the	The Board does not maintain this information.

			quality of the local data for NG9-1-1 purposes? Have any surveys or analyses been performed on local GIS data across the state?	
15	ATTACHMENT D- Technical Specifications	3.3.2 PSAP GRAPHICAL USER INTERFACE AND TEXT STATUS WINDOWS (BROWSER METHOD)	PSAPs utilizing direct SIP MSRP interface into their controller have visibility internal to the controller; can you please expand upon how you envision this information being part of a statewide Web-enabled access point?	Based upon the information presented in the question, if the connection at a PSAP were SIP/MSRP, then the need for a web enabled access point would not be required. They are mutually exclusive deployment methods for text.
16	ATTACHMENT D- Technical Specifications	4.5 LEGACY NETWORK GATEWAY (LNG)	The ANGEN Network diagrams suggest T1 interface into LNG. However the requirements reads for SS7 or MF signaling. Should SS7 be included in the design?	Please refer to Appendix A of this document.

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1	Attachment D, Technical Specifications	3.3. and Section 5	The RFP outlines the requirement for providing a hosted solution for the processing of text-to-911 messages. Is it the expectation or requirement of the Board to receive text-to-911 reporting? If so, what section should we provide response for SMS reports?	It is the expectation of the Board that all forms of traffic, including text, would have the ability to be reported on and included as part of the enterprise wide reporting system. Any reporting capabilities proposed should be responded to in AL-NG911-RFP-16-001 Attachment D Section 5.
2	Attachment C, Cost Proposal	Section 5	What line item in the Cost Proposal would you like the costs for text-to-911 reporting to be included?	The expectation would be that any costs associated with services provided in response to the reporting requirements in Section 5 are reflected in the corresponding section for Reporting Services found in Attachment C – Cost Proposal.
3	Attachment D, Technical Specifications	Section 1, 1.1	When providing a best in class solution to a specific section of the RFP, what is the expectation for partially complying with other sections and/or requirements? EXCEPTION or NON-COMPLY?	Please refer to AL-NG911-RFP-16-001 Attachment D Section 1 for specific instructions on how to identify responses.
4	Attachment D, Technical Specifications	Section 1, 1.4	The wireless E911 call volumes were provided per PSAP, can you please send the annual 911 and admin call volumes per PSAP? If not, can you please	The Board does not maintain this information.

			provide the total position/station count per PSAP?	Please refer to Appendix A of this document.
5	Attachment D, Technical Specifications	Section 1	Out of the 118 Primary PSAPS, how many PSAPs are in a host/remote environment? How many hosts, remotes and standalone PSAPs?	This information is provided voluntarily by PSAPs and ECDs to the Board. Please refer to Appendix A of this document.
6	Attachment B – Business Proposal		Attachment B, Business Proposal, doesn't allow for detailed responses. The response sections are unable to expand. Can you please send an expandable version of the Business Proposal?	If the worksheet as downloaded is not working properly, please contact Leah@al911board.com
7	Attachment D, Technical Specifications	Section 1.3	Is 100% coverage with NG-SEC expected or do small/medium sized businesses have the ability to express exception to some NG-SEC requirements?	All respondents must articulate any exceptions to the requirements or offer a sufficient alternative in their response.
8	Attachment D, Technical Specifications	Section 5	Is it expected that MIS systems will provide reporting on both the network and at the local PSAP level?	Yes.
9	Attachment D, Technical Specifications	Section 7.1	Do non-mission critical systems require separate UPS systems or can they utilize the premise UPS if they are low wattage (ex: 65W or less)?	Where possible, the Board would prefer the use or re-use of existing systems and services to reduce costs to the Board and the PSAPs. There will likely be situations where any contracted service provider supporting ANGEN will have to

				ensure their own power, UPS, backup, redundancy etc. in order to meet their respective SLAs to the Board.
10	Attachment D, Technical Specifications	Section 1	How many of the PSAP's have a redundant and/or geo-diverse CPE Solution?	The Board does not maintain this information. Please refer to Appendix A of this document.
11	Attachment D, Technical Specifications	Section 2.6.1	Is network monitoring for intrusion detection/prevention/malware/hacking as a SaaS a viable option for response to section 2.6.1?	Yes.
12	Attachment D, Technical Specifications	Section 2	Is it an expectation of the MIS platform to measure and report on QoS or is this an expectation of the ESINet subsystem implementers?	QoS or any other operational network measures would be the responsibility of the ESInet service provider.
13	Attachment D, Technical Specifications	Section 6.6	What are the expected manned hours for the NOC?	If you are proposing services that require a Network Operations Center, then the expectation would be 24x7x365.
14	Attachment D, Technical Specifications	Section 8.3	For section 8.3 are all the PMO artifacts required to be complete as part of the response or is comply acceptable with a narrative and artifacts can be generated after award?	The Board would like to see more than a comply. Example documents or examples used for other projects would be preferred.

15	Attachment D, Technical Specifications	Section 8.1	Are all the PMO artifacts required to be complete as part of the response or is comply acceptable with a narrative and artifacts can be generated after award?	The Board would like to see more than a comply. Example documents or examples used for other projects would be preferred.

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1	1-AL-NG911-RFP-16-001-SECTION 1-GENERAL-INSTRUCTIONS-FINAL (2).doc	1.3 Due Date for Proposals	As the State's schedule currently reflects having responses to bidder questions by February 26, 2016 and a final proposal submission date of March 4, 2016, this does not leave bidders much time to account for what likely will be very substantive changes and/or modifications to their proposals. To allow bidders ample time to account for such changes which are likely based on previous statewide RFPs of this magnitude, and to afford the State the most competitive and accurate proposals	The due date for responses to this RFP will remain 3-4-2016. No extension will be granted at this time.

			possible, would the State consider amending the schedule to allow for questions up to February 26, 2016, responses to questions by March 4, 2016, and final submission of proposals to April 1, 2016?	
2	5-AL-NG911-RFP-16-001-ATTACHMENT-D-TECHNICAL SPECIFICATIONS-FINAL.doc	6.1 Customer Support Services	"Respondents must agree to meet the current Service Level Agreements (SLA) being used in the ANGEN network operation and negotiate "in good faith" new SLA's that meet the expectations of the functionality described in this RFP and the Board." – Can the State provide copies of the current SLA's to allow us to review and subsequently agree to meet them? Without details it will be impossible for any potential bidder to agree to meet the current SLA's.	It is the expectation of the Board that new SLAs will be developed as part of any contract negotiations for proposed services submitted in response to this RFP. Any current SLAs focus on equipment and services related to legacy connections. Any new SLAs would be based upon the services that the Board ultimately contracts with a service provider to provide in support of the ANGEN system.

3	5-AL-NG911-RFP-16-001-ATTACHMENT-D-TECHNICAL SPECIFICATIONS-FINAL.doc	1.4 ANGEN BACKGROUND	Call volumes for the ANGEN network are provided. However the RFP is requesting the network to handle all 9-1-1 calls, not just those from the wireless carriers. Can the state provide the call volumes of the other sources of 9-1-1 calls that will also be carried on the new network?	Please refer to Appendix A of this document.
4	5-AL-NG911-RFP-16-001-ATTACHMENT-D-TECHNICAL SPECIFICATIONS-FINAL.doc	Figure 1 - ANGEN Conceptual Design Diagram	Figure 5 contains a component labeled as NG ALI. In the NENA documents referenced, there is no NG ALI Functional Element or component described. Can the state provide details on the functions of the NG ALI component?	Please refer to AL-NG911-RFP-16-001 Attachment D Section 4 for specific requirements related to Legacy Database functions.
5	5-AL-NG911-RFP-16-001-ATTACHMENT-D-TECHNICAL SPECIFICATIONS-FINAL.doc	Figure 2 - ANGEN ESInet Goals and Design Considerations	In Figure 6, the fourth bullet point states, “Current thought is to require the use of ASA circuits for new network due to cost”. Does this mean the state will provide all circuits for the network and manage the network? Can	No, the Board is not providing circuits for the network. A network design is expected with or without ASA components and pricing. Specific redundancy, diversity, last mile environments for most of the 118 PSAPs included in

			details in regard to the circuits be provided to enable a complete network design? Does ASA have circuits out to each PSAP, including diverse routes to each PSAP?	this RFP are unknown at this time.

Appendix A – Additional PSAP and ANGEN Information

Answers to questions pertaining to AL call volumes

- 2,735,027 - Wireless 9-1-1 Calls processed by ANGEN and routed to PSAPs via LEC selective routers
- 465,000 - Estimated number of phantom events/calls that last less than 1 second and have not been reconciled or eliminated by the current system service provider (these are not actual 9-1-1 calls)
- 3,200,027 - wireless call events processed by ANGEN in 2015
- 684,000 - Wired calls assuming wireless = 75% - exact number is unknown.
- 3,884,027 - Estimated total 9-1-1 call volume for 2015

Additional Information pertaining to AL PSAPs

- 118 - Primary PSAPs in Alabama and in scope for this RFP
- 109 - PSAPs receive direct wireless calls processed via ANGEN - Not all primary PSAPs answer wireless 911 calls today
- 88 ECDs are responsible for and operate/fund the 118 PSAPs
- The Board is responsible to the 88 ECDs

Each of these numbers could serve as a unit cost used to determine service costs in a respondents solutions. It also is provided to help respondents understand the different user types and potential interface points required for a successful solution.

Information on PSAP by County by CPE, Model and Trunks
(This information is self-reported and may not be current.)

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Autauga 9-1-1	AUTAUGA	Cassidian	Sentinel Patriot	Patriot	6
Baldwin County 9-1-1	BALDWIN	Cassidian	Sentinel CM	Sentinel CM	8
Barbour County SO	BARBOUR	Microdata	xT911	xT911	7
Bibb County 9-1-1	BIBB	Zetron	Interceptor	Interceptor	5
Blount County 9-1-1	BLOUNT	Solacom	Guardian	Guardian	10
Union Springs PD	BULLOCK	Zetron	Zetron 3200	Zetron 3200	3
Butler County 9-1-1	BUTLER	HOSTED CALLWORKS (Wiregrass)			4
Calhoun County 9-1-1	CALHOUN	Cassidian	Sentinel Patriot	Patriot	10
Chambers County 9-1-1	CHAMBERS	Solacom	Guardian		

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Cherokee County 9-1-1	CHEROKEE	Cassidian	TCI Synapse	Synapse	4
Chilton County 9-1-1	CHILTON	HOSTED CALLWORKS (Wiregrass)	Lifeline	Lifeline	
Choctaw County 9-1-1	CHOCTAW	Cassidian	Sentinel Patriot	Patriot	5
Clarke County 9-1-1	CLARKE	Cassidian	Rescue Star	Buying New?	8
Clay County 9-1-1	CLAY	Cassidian	Vesta Pallas	Vesta Pallas	3
Cleburne County 9-1-1	CLEBURNE	Cassidian	Sentinel Patriot	Patriot	3 wired; 2 wireless
Elba PD	COFFEE	HOSTED CALLWORKS (Wiregrass)			
Enterprise PD	COFFEE	HOSTED CALLWORKS (Wiregrass)			
Colbert County 9-1-1	COLBERT	Cassidian	Vesta Sentinel	Vesta 4.0	6
Conecuh County 9-1-1	CONECUH	Zetron	Zetron 3200	Zetron 3200	4
Coosa County SO	COOSA	Cassidian	Sentinel Patriot	Patriot	6
Goodwater PD	COOSA	Same as Coosa county			
Covington County 9-1-1	COVINGTON	HOSTED CALLWORKS (Wiregrass)			
Crenshaw County 9-1-1	CRENSHAW	HOSTED CALLWORKS (Wiregrass)			
Cullman County SO	CULLMAN	Positron	Viper	Viper	2
Cullman PD	CULLMAN				2
Hanceville PD	CULLMAN				2
Daleville DPS	DALE	HOSTED CALLWORKS (Wiregrass)			Unknown
Fort Rucker PD	DALE	?	?	?	Unknown
Ozark-Dale County 9-1-1	DALE	HOSTED CALLWORKS (Wiregrass)			Unknown

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Dallas County 9-1-1	DALLAS	Zetron	Zetron 3200	Zetron 3200	3
DeKalb County 9-1-1	DE KALB	Positron	Lifeline	Lifeline	5
Ft Payne PD	DE KALB	Tritech	Avaya Call master - G450	Tritech G450	2
Elmore County SO	ELMORE	Solacom	Guardian	Guardian	6
Eclectic PD	ELMORE				2
Millbrook PD	ELMORE				4
Tallassee PD	ELMORE				4
Wetumpka PD	ELMORE				4
Atmore PD	ESCAMBIA	CASSIDIAN VESTA	Vesta	Vesta	8
Brewton PD	ESCAMBIA				
East Brewton PD	ESCAMBIA				
Escambia County SO	ESCAMBIA				
Flomaton PD	ESCAMBIA				
Poarch Creek Indians	ESCAMBIA				
Etowah County 9-1-1	ETOWAH	Solacom	Guardian	Guardian	5
Gadsden PD	ETOWAH	Solacom	Guardian	Guardian	Unknown
Fayette County 9-1-1	FAYETTE	Cassidian	Vesta Pallas	Vesta Pallas	5
Franklin County SO	FRANKLIN	Cassidian	Vesta Sentinel	Vesta 4.0	2 - Wired Hville 2 - Wired Winfield 2 - Wireless - Hville
Geneva County 9-1-1	GENEVA	HOSTED CALLWORKS (Wiregrass)			Unknown
Greene County 9-1-1	GREENE	Zetron	Zetron 3200	Zetron 3200	4
Hale County 9-1-1	HALE	ATT Microdata	Microdata	Microdata	Unknown

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Abbeville PD	HENRY	HOSTED CALLWORKS (Wiregrass)			Unknown
Headland PD	HENRY	HOSTED CALLWORKS (Wiregrass)			Unknown
Dothan PD	HOUSTON	HOSTED CALLWORKS (Wiregrass)			Unknown
Houston County SO	HOUSTON	HOSTED CALLWORKS (Wiregrass)			Unknown
Scottsboro PD (jackson co 911)	JACKSON	Cassidian	Sentinel Patriot	Patriot	3
Adamsville PD	JEFFERSON	?	?	?	Unknown
Bessemer City PD	JEFFERSON	Cassidian	Sentinel Patriot	Patriot	6
Birmingham PD	JEFFERSON	CallWorks			18
Fairfield PD & FD	JEFFERSON	?	?	?	Unknown
Gardendale PD	JEFFERSON	Zetron	Inegrator RD	Integrator	4
Graysville PD & FD	*JEFFERSON*	?	?	?	2
Homewood PD & FD	JEFFERSON	Positron	Viper	Viper	5
Hoover PD	JEFFERSON	Cassidian	Sentinel Patriot	Patriot	8 (w/4 dedicated wireless)
Hueytown PD	JEFFERSON	Cassidian	Sentinel Patriot	Patriot	3
Irondale PD	JEFFERSON	Cassidian	Sentinel Patriot	Patriot	3
Jefferson County 9-1-1	JEFFERSON	CallWorks			Unknown
Leeds PD	JEFFERSON	Zetron	Integrator	Integrator	3
Midfield PD	JEFFERSON	Zetron	Zetron 3300	Zetron 3300	3
Mountain Brook PD & FD	JEFFERSON	Cassidian	Sentinel Patriot	Patriot	5

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Pleasant Grove PD	JEFFERSON	Zetron	Zetron 3200	Zetron 3200	3
Tarrant City PD & FD	JEFFERSON	Cassidian	TCI NDT	NDT	3
Vestavia (Consolidated with Shelby Co)	JEFFERSON	CallWorks	CallWorks		(Consolidated with Shelby Co)
Lamar County 9-1-1	LAMAR	Zetron	Zetron 3200	Zetron 3200	3
Lauderdale County 9-1-1	LAUDERDALE	Positron	Lifeline	Lifeline	4
Lawrence County 9-1-1	LAWRENCE	Positron	Power 911	Power 911	3
Auburn Public Safety Dept	*LEE*	Cassidian	Vesta Pallas	Vesta Pallas	4
Lee County SO	*LEE*		Positron		5
Opelika PD	*LEE*		Positron		5
Limestone County 9-1-1	LIMESTONE	Solacom	Guardian	Guardian	4 wired; 4 wireless
Lowndes County 9-1-1	LOWNDES	Zetron	Zetron 3200	Zetron 3200	2
Macon County SO	MACON	Cassidian	Sentinel Patriot	Patriot	2
Notasulga PD	MACON				2
Shorter PD	MACON				2
Tuskegee City PD	MACON				2
Huntsville-Madison County 9-1-1	MADISON	Solacom	Guardian	Guardian	22
Marengo County 9-1-1	MARENGO	SYNERGEM	Evolution 911	Evolution 911	4
Marion County 9-1-1	MARION	Cassidian	Vesta Sentinel	Vesta 4.0	2 wired; 3 wireless
Marshall County 9-1-1	MARSHALL	Cassidian	Sentinel Patriot	Patriot	8
Albertville PD	MARSHALL				7
Arab Police (Secondary)	MARSHALL				Unknown
Boaz PD Secondary	MARSHALL				Unknown

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Guntersville PD Secondary	MARSHALL				Unknown
Marshal County S/O Secondary	MARSHALL				Unknown
Mobile County 9-1-1	MOBILE	Cassidian	Sentinel CM	Sentinel CM	24
Monroe County 9-1-1	MONROE	Cassidian	TCI - NDT	NDT	6
Monroeville PD	MONROE	?	?	?	Unknown
Montgomery County SO	MONTGOMERY	CallWorks	Power 911	Power 911	3
Montgomery PD	MONTGOMERY	CallWorks	Viper	Viper	10
Morgan County 9-1-1	MORGAN	Cassidian	Sentinel Patriot	Patriot	4 wired; 4 wireless
Perry County 9-1-1	PERRY	Cassidian	Vesta Pallas	Vesta Pallas	4
Pickens County 9-1-1	PICKENS	Cassidian	Sentinel Patriot	Patriot	AT&T = 4 - 2 Wired & 2 Wireless CenturyLink = 6 Wired Big River = 2 Wired
Troy PD	PIKE	Solacom	Guardian	Guardian	6
Randolph County 9-1-1	RANDOLPH	Cassidian	Vesta Pallas	Vesta Pallas	4
Phenix City PD	RUSSELL	Zetron	Zetron 3200	Zetron 3200	4
Russell County SO	RUSSELL	Zetron	Zetron Max	Zetron Max	3
Pelham PD	SHELBY	CallWorks	CallWorks	CallWorks	4
Shelby County 9-1-1	SHELBY	CallWorks	CallWorks	CallWorks	12
St Clair County 9-1-1	ST. CLAIR	Cassidian	Sentinel Patriot	Patriot	6
Sumter County SO	SUMTER	Positron	Power 911	Power 911	5
Talladega County 9-1-1	TALLADEGA	Cassidian	Sentinel Patriot	Patriot	5 wired; 5 wireless
Alexander City PD	TALLAPOOSA				5

PSAP Name	COUNTY	911 CPE	CPE Model	Standard Names	# of trunks
Tallapoosa County SO	TALLAPOOSA	Zetron	Zetron 3200	Zetron 3200	5
Northport PD	TUSCALOOSA	?	?	?	4
Tuscaloosa County SO	TUSCALOOSA	CallWorks	Zetron 3200	Zetron 3200	4
Tuscaloosa PD	TUSCALOOSA	?	?	?	8
Walker County 9-1-1	WALKER	Cassidian	Vesta Sentinel	Vesta 4.0	8
Washington County 9-1-1	WASHINGTON	Cassidian	Sentinel Patriot	Patriot	3
Wilcox County 9-1-1	WILCOX	Tritech	Quicklink 2007	Quicklink 2007	5
Winston County 9-1-1	WINSTON	Cassidian	TCI NDT	NDT	8

Answers to ANGEN – ASA Data Center Questions

Huntsville - Alabama Supercomputer Center
686 Discovery Drive
Huntsville, Al 35806
1st floor computer room #132

This facility houses the ASC and most technical staff who monitor and manage the Alabama Research and Education Network (AREN). ANGEN rides many of the AREN facilities with the exception of last mile connections to PSAPs.

Access to the ASC is controlled and managed by ASC staff and there have been no issues gaining access at any time as this facility is staffed 24x7x365.

Each wireless carrier serving Alabama has T1 circuit(s) terminated at this facility from their MSCs.

Montgomery - Retirement System of Alabama (RSA) Tower
201 S. Union St.
Montgomery, AL 36104
4th Floor Data Center

ASC is one of many government tenants in this facility so access is managed and coordinated. This facility can be accessed after hours or on weekends with coordination, but the data center is not staffed outside normal business hours.

With the exception of one regional wireless carrier, all carriers duplicate their T1 connections at Montgomery.

General Information

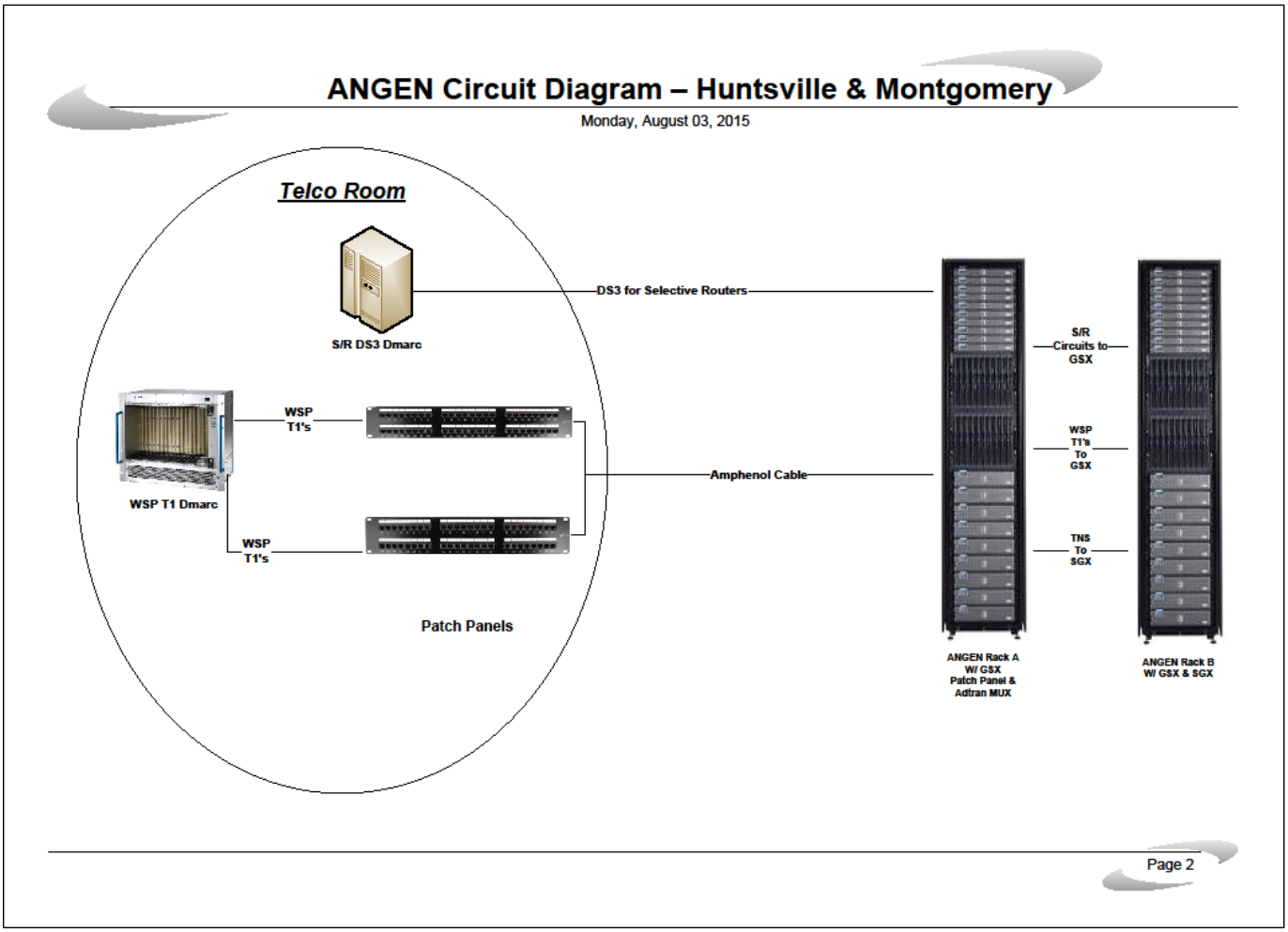
9-1-1 calls arrive via SS7 on T1s and are routed to the seven legacy selective routers via the same.

Either core facility can handle the call volume for Alabama and this has occurred.

ANGEN assigned a primary and secondary core facility for each PSAP. The call load is reasonably balanced between the two facilities.

AT&T Wireless is the exception to the primary/secondary policy, AT&T routes calls from each MSC alternately between the two core facilities without regard for geography.

The diagram below provides additional details on the connectivity and equipment used in the current ANGEN solution.



The table below provides information regarding the ANGEN Huntsville Circuits

ANGEN Huntsville CCRF Cross-Connect Information as of 7/2015

Circuit ID	ANGEN BWC Trunk Grp	Carrier	Carrier MSC	Smart Shelf 1	Smart Shelf 2	Telect Panel (server room)	Telect Panel (ANGEN rack)	GSX01	GSX02	COMMENTS
10DHXM/506183	BWC1234	T-MOBILE	MIRAMAR	1		8	8	8		
A4HCGS/833846	BWC1275	Sprint	NASHVILLE	2		7	7		10	
A4HCGS/835171	BWC1238	VZW	MACON	3	9	11	11	11		
10DHXM/542395	BWC1235	T-Mobile	ATLANTA	4		9	9	9		
A4HCGS/833398	BWC1273	Sprint	NORCROSS	10		24	24		1	
A4HCGS/835172	BWC1247	VZW	BIRMINGHAM		10	14	14	14		
A4HCGS/835173	BWC1247	VZW	BIRMINGHAM		11	15	15	15		
A4HCGS/835174	BWC1245	VZW	BIRMINGHAM		19	16	16	16		
A4HCGS/835175	BWC1245	VZW	BIRMINGHAM		13	17	17	17		
A4HCGS/833440	BWC1249	VZW	ENTERPRISE	16		18	18	18		
A4HCGS/833484	BWC1259	ATT	MOBILE	17		20	20	20		
A4HCGS/833397	BWC1241	VZW	PENSACOLA	18		19	19	19		
A4HCGS/833490	BWC1253	ATT	BIRMINGHAM	19		21	21	21		
A4HCGS/833512	BWC1243	SouthernL	LONGMONT	21		25	25	24		
A4HCGS/833589	BWC1267	ATT	DECATUR, GA	23		1	1		3	
A4HCGS/833599	BWC1263	ATT	BIRMINGHAM	24		2	2		4	
A4HCGS/832186	EGRESS	TNS	ROCKHILL	ADTRAN MUX PORT 8 (DS3)		28	28			To SGX
A4HCGS/832259	EGRESS	TNS	MATOON	27		27	27			To SGX
A4HCGS/833657	BWC1269	T-Mobile (L3)	MCLEAN		1	6	6		9	Level 3
A4HCGS/833619	BWC1271	ATT	DECATUR, GA		3	3	3		8	
A4HCGS/833655	BWC1261	ATT	ISDN		4	5	5		7	10 Digit Failover
A4HCGS/833997		PINEBELT	Selma		5	10	10		11	
10.DHMM.542593	EGRESS DIVERSITY (EARTHLINK)	C-Spire	JACKSON	22		12	12		12	
A4HCGS/433045		TNS		8		22	22	4		TNS diversity
10.DHMM.542587		C-Spire	SEMMES	5		13	13		13	
A4HCGS/835325		C-Spire	SEMMES		12	4	4		5	New Circuit - not turned up

The table below provides information regarding the ANGEN Montgomery Circuits

ANGEN Montgomery CORF Cross-Connect Information as of 7/2015

Circuit ID	ANGEN BMC Trunk Grp	Carrier	Carrier MSC	Smart Shelf 1	Smart Shelf 2	Telect Panel 1 (server room)	Telect Panel 2 (server room)	Telect Panel 1 (ANGEN rack)	Telect Panel 2 (ANGEN rack)	GSW01	GSW02	COMMENTS
ALHCGS.414180	BMC1240	VZN	PENSACOLA	21		12			12	12		
ALHCGS.414165	BMC1272	SPRINT	NORCROSS	22		20			20	20		
ALHCGS.414225	BMC1252	ATT	BIRMINGHAM	23		21			21	21		
ALHCGS.414232	BMC1258	ATT	MOBILE	24		22			22	22		
ALHCGS.414233	BMC1242	SUNC	MIAM	25		23			23	23		
ALHCGS.414277		??		27		24			24	24		Possible disco??
ALHCGS.414545	BMC1274	SPRINT	NASHVILLE	28			1				12	
ALHCGS.414295		XO	MOBILE	1		1		1		11		Possible disco??
10DHNV581681	BMC1276	CSPIRE	JACKSON	2		2		2			4	
ALHCGS.414337	BMC1266	ATT	DECATUR	3		3		3			5	
ALHCGS.414352	BMC1262	ATT	BIRMINGHAM	4		4		4			6	
ALHCGS.414641	EGRESS	TNS	MATCON	6		27		27				to SGW01 (matcon)
ALHCGS.414655	EGRESS	TNS	ROCKHILL									to SGW02 (rockhill). Comes in via ds3 on port 8 of Adtran MUX
ALHCGS.414378	BMC1270	ATT	DECATUR	8		7		7			9	
ALHCGS.414400	BMC1260	ATT	ISDN	9		26		26			2	10DIGITFAILOVER
ALHCGS.414438	BMC1268	TMOBILE(L3)	CANBRIDGE	10			2		2		11	LEVEL3
10DHNV585715		CSPIRE	SEMMES	11		11		11			7	
ALHCGS.415362	BMC1244	VZN	BIRMINGHAM	12		13		13		13		
ALHCGS.415363	BMC1244	VZN	BIRMINGHAM	13		14		14		14		
ALHCGS.415364	BMC1246	VZN	BIRMINGHAM	14		15		15		15		
ALHCGS.415365	BMC1246	VZN	BIRMINGHAM	15		16		16		16		
ALHCGS.415366	BMC1239	VZN	MACON	16		18		18		18		
ALHCGS.415886		CSPIRE	SEMMES		18	10		10		10		
ALHCGS.415882		SPRINT		7		8		8			8	NEW CIRCUIT FOR SPRI

- Nothing Follows –