

System Name: Union/Alexander County Joint ETSB**Case # 16-C-129****Date Filed: 11/27/18****Department Review of Consolidation**

(For consolidation of an unserved county with an existing 9-1-1 authority and the creation of a Joint ETSB or consolidation of either paper ETSBs or multiple ETSBs resulting in the creation of a Joint ETSB and consolidation of individual PSAPs)

Requirement	Information Included	Staff Comment
Contact and 9-1-1 System information	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Crystal Gurley 309 W. Market St. Room 016 Jonesboro, IL 62952 618-833-5442 cgurley@unioncountyl.gov
Verification	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Letter of Intent	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Plan Narrative (if incorporating an NG9-1-1 solution, narrative must include the following:)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	<p>Union County has entered into an intergovernmental agreement (IGA) with Alexander County to consolidate into a joint 9-1-1 system and will be called Union/ Alexander County Joint ETSB. Both Counties have also passed ordinances dissolving their individual ETSBs. The PSAP for the Joint system will be located in Union County and will answer all wireline, wireless and VoIP 9-1-1 calls for both counties. Currently, Alexander County's 9-1-1 calls are handled by Pulaski County PSAP.</p> <p>In addition, the plan is requesting to change its 9-1-1 System Service Provider from NG-911, Inc. to INdigital. The system will be provisioned as an IP, Next Generation i3 capable network and will deliver calls using IP technology to the PSAP. The system will have redundant Legacy Network Gateways (LNG's) and Emergency Service Routing Proxy's (ESRP's), otherwise referred to as selective routers that will handle all call routing for the PSAP. One set of call routing elements is located in the Consolidated Communications Mattoon central office and the other is located in the Shawnee Communications central office in Rosiclare, Illinois.</p> <p>Given the current structure of the network, the implementation of the new 9-1-1 System provider and consolidation will need to occur in 2 Stages.</p>

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		<p>Stage 1: All carrier trunks will remain connected to Frontier's Carbondale central office. INdigital will establish new network connections from Carbondale central office to the gateways located at the existing datacenters in Murphysboro and Harrisburg. 9-1-1 calls will be re-directed to the new INdigital connections at Carbondale to the gateways at the datacenters and then be delivered to INdigital's ESRPs located in Mattoon and Rosiclare for selective routing to the appropriate PSAP. INdigital will manage the ALI database management system and will provide the IP based selective routing for call delivery with ANI and ALI.</p> <p>The first stage of implementation is the conversion from NG-911, Inc. to INdigital as the new 9-1-1 System Provider. Alexander County 9-1-1 calls will continue to be routed to the Pulaski County PSAP during stage 1.</p> <p>Additionally, all split exchanges for both counties will continue to route the same as no other network changes will be made in Stage 1. Additionally, the current ESInet that exists between the two data centers and the PSAP will remain in place for call delivery in Stage 1.</p> <p>Stage 2: Alexander County 9-1-1 calls will be migrated from the Pulaski County PSAP to the Union/Alexander County PSAP. Therefore, all carriers that were currently connected to the Frontier Carbondale central office for Union and Alexander Counties will establish new 9-1-1 trunks to the INdigital selective routers/or LNGs located in Mattoon and Rosiclare. INdigital will work with each carrier to determine the type of trunk signaling and establish points of interconnection for 9-1-1 call delivery. The carriers can deliver 9-1-1 calls to INdigital ESRPs or LNG's by using SS7 signaling or by using a SIP trunk IP based signaling. PS/ALI subscribers will be identified and included in the network and database migration plans.</p> <p>The Union/Alexander Joint ETSB will file a wireless plan with the ISP after the consolidation modification plan is approved. Once approval is given, wireless service will be migrated along with the wireline and VoIP services during Stage 2.</p>
	Name of certified 9-1-1 system provider	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> INdigital, Inc.

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	Explanation of the national standards, protocols and/or operating measures that will be followed	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	The consolidated system will comply with all State and Federal requirements and be compliant with the National Emergency Number Association Standards.
	Explanation of measures taken to create a robust, reliable and diverse/redundant network and whether other 9-1-1 Authorities will be sharing the equipment	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	The system will be provisioned as an IP, Next Generation i3 capable network and will deliver calls using IP technology to the PSAP. The system will have redundant Legacy Network Gateways (LNG's) and Emergency Service Routing Proxy's (ESRP's), otherwise referred to as selective routers that will handle all call routing for the PSAP. One set of call routing elements is located in the Consolidated Communications Mattoon central office and the other is located in the Shawnee Communications central office in Rosiclare, Illinois.
	Explanation of how the existing 9-1-1 traditional legacy wireline, wireless and VoIP network, along with the databases, will interface and/or be transitioned into the NG9-1-1 system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	All carriers that are currently connected to the Frontier Carbondale central office for Union and Alexander Counties will establish new 9-1-1 trunks to the INdigital selective routers/or LNGs that are located in Mattoon and Rosiclare. INdigital will work with each carrier to determine the type of trunk signaling and establish points of interconnection for 9-1-1 call delivery. The carriers can deliver 9-1-1 calls to INdigital ESRPs or LNG's by using SS7 signaling or by using a SIP trunk IP based signaling. PS/ALI subscribers will be identified and included in the network and database migration plans.
	Explanation of how split exchanges will be handled	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Split exchanges will be discussed, and the routing will be thoroughly planned for based on ICC/ISP orders during the Stage 2 Industry project calls that will be hosted by INdigital on a regular basis. These project calls will include all participating Service Providers, ICC and ISP Staff as well as the 9-1-1 authority.
	Explanation of how the databases will be maintained and how address errors will be corrected and updated on a continuing basis	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	INdigital will request TN loads and updates from the carriers prior to the cut over and assume all 9-1-1 SSP administrative responsibilities for the database at the time of conversion. INdigital will work with the carriers and the Union/Alexander Joint ETSB to keep the database up to date and in compliance with Illinois State law on an ongoing basis.
	Explanation of who will be responsible for updating and maintaining the data, at a minimum on a daily basis Monday	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	INdigital will administer the 9-1-1 database and MSAG for the subscribers that reside in the service territory of the consolidated system.

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	through Friday		
	Explanation of security measures placed on the IP 9-1-1 network and equipment to safeguard it from malicious attacks or threats to the system operation and what level of confidentiality will be placed on the system in order to keep unauthorized individuals from accessing it	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/>	Access is password protected. The IP 911 network is private with no outside access.
Financial Information			
	Name of ETSB(s) that are being dissolved with Total Reserves to be transferred to the Joint ETSB	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Alexander and Union County individual ETSB's will be dissolved upon approval of the Union/Alexander Joint ETSB. Alexander County ETSB reserves total 200,000.00 Union County ETSB reserves total \$250,000.00
	Number of answering positions, full-time and part-time dispatchers prior to and after consolidation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	There are 3 answering positons prior to the consolidation and there will be 3 answering positions in the consolidated system. There are 8 full time dispatcher/call takers prior to the consolidation and there will be 8 in the consolidated system. There is 1 part time dispatcher/call taker prior to the consolidation and there will be 1 in the consolidated system.
	Total network cost prior to and after consolidation	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Network Cost prior to the consolidation for both entities is \$246,649.56. Network cost of the consolidate system will be \$63,289.56. Creating a Network savings of \$183,360.00.
	Network Costs that the State will be responsible for paying	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	\$63,289.56
	Recurring and nonrecurring consolidation cost	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Estimated nonrecurring cost are \$15,000.00. Recurring costs of consolidation is \$272,857.70

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	All revenue sources for consolidated system	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	\$687,583.00
Five Year Strategic Plan		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Communities Served		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Participating Agencies		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Adjacent Agencies		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Carrier Listing		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Attachments			
	Ordinances	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Union and Alexander passed ordinances to dissolve their individual ETSBs.
	Intergovernmental agreement(s)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Union and Alexander entered into an IGA to create a Joint ETSB.
	Contracts	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	INDigital contract
	Back-up PSAP agreement	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Jackson County is the backup PSAP.
	Network Diagram	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
	Call-Handling and Aid outside jurisdictional boundaries agreements	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	
Test Plan		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Conclusions:

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Under 50 ILCS 750/15.4a (6), any 9-1-1 Authority that does not have a PSAP within its jurisdiction shall be consolidated through an intergovernmental agreement with an existing 9-1-1 Authority that has a PSAP. As a result, Alexander County is required to consolidate. Alexander County currently contracts 9-1-1 call handling and dispatching to Pulaski County, but has chosen to consolidate with Union County.

The Department has completed its review of the Union/Alexander Consolidation Plan which was filed as prescribed by Section 1324.200(c) of Illinois Admin. Code Part 1324.200 – Consolidation of 9-1-1 Emergency Systems and agrees that it meets the requirements for consolidation and modification of its 9-1-1 system.

Reviewed by: Marci Elliott

Date: 12/13/18