

**ILLINOIS STATE POLICE**  
**Office of the Statewide 9-1-1 Administrator**



**State of Illinois**

**Application for**  
**9-1-1 Modification Plan**



# VERIFICATION

I, Betsy Tipsword, first being duly sworn upon oath, depose and say that I am 9-1-1 System Manager, of Woodford County ETSB; that I have read the foregoing plan by me subscribed and know the contents thereof; that said contents are true in substance and in fact, except as to those matters stated upon information and belief, and as to those, I believe same to be true.



Betsy Tipsword

9-1-1 System Manager

Subscribed and sworn to before me

this 21<sup>st</sup> day of November, 20 24.

Shannon L. Hoffman-Arvin  
NOTARY PUBLIC, ILLINOIS

# 9-1-1 SYSTEM PROVIDER LETTER OF INTENT

11/21/2024

\_\_\_\_\_  
(Date)

Lisa Wirtanen

\_\_\_\_\_  
(9-1-1 System Provider Company Representative)

AT&T

\_\_\_\_\_  
(9-1-1 System Provider Company Name)

4918 West 95th Street

\_\_\_\_\_  
(Street Address)

Oak Lawn, IL 60453

\_\_\_\_\_  
(City, State, Zip Code)

Dear Lisa Wirtanen \_\_\_\_\_ :

This letter is to confirm our intent to modify our 9-1-1 System. Enclosed is your copy of our modification plan to be filed with the Department of the Illinois State Police for approval. Thank you for your assistance in this matter.

Sincerely,



enclosure: Modification Plan

# NARRATIVE STATEMENT:

*(Provide a detailed summary of system operations for a modified 9-1-1 plan. Also, if incorporating an NG9-1-1 solution, please include the additional items listed below pursuant to 1325.205 b)12).*

- 1) Indicate the name of the certified 9-1-1 system provider being utilized.
- 2) Explain the national standards, protocols and/or operating measures that will be followed.
- 3) Explain what measures have been taken to create a robust, reliable and diverse/redundant network and whether other 9-1-1 Authorities will be sharing the equipment.
- 4) Explain 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.
- 5) Explain how split exchanges will be handled.
- 6) Explain how the databases will be maintained and how address errors will be corrected and updated on a continuing basis.
- 7) Explain who will be responsible for updating and maintaining the data, at a minimum on a daily basis Monday through Friday.
- 8) Explain what security measures will be 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.

## Plan Narrative:

The Woodford County 9-1-1 System is transitioning from E9-1-1 to Next Generation 9-1-1 (NG911). AT&T is the 9-1-1 System Provider ("SSP").

The Woodford County 9-1-1 System will comply with all Federal and State laws and with National Emergency Number Association Standards (NENA) that pertain to NG911 including the NENA i3 Standard for Next Generation - NENA-STA-010.3a-2021.

The State of Illinois has selected AT&T to provide a statewide Next Generation 9-1-1 System. AT&T's ESInet combines AT&T's network capabilities with technology from Intrado Life & Safety, Inc. (Intrado). The AT&T ESInet solution will facilitate an efficient transition from legacy 9-1-1 networks to networks capable of supporting the growing demands of a mobile society. With AT&T ESInet, the State is taking advantage of AT&T's investment in a pre-built, cloud-based solution that delivers next-generation functionality. AT&T is also providing their industry-leading AT&T VPN MPLS network for primary access to all PSAPs.

AT&T's ESInet solution is a combination of their IP network and Next Gen Core Services (NGCS) components that includes industry leading SLAs, management services and tools to help ensure that they provide the best possible service.

The design is based on building redundant systems to avoid any single point of failure (SPOF) in the ESInet and the overall NG9-1-1 Network Architecture. The NG9-1-1 system will provide flexibility in the routing of calls. The ESInet being deployed has all PSAPs connected and can route calls based on not only location, but also by availability. In a Next Generation solution, a call will be answered through intelligent routing. Additionally, there will be more available positions to answer calls because all connected and tested PSAPs will be technically able to answer the call and will be able to dispatch or transfer the call to another PSAP.

AT&T's ESInet defense-in-depth security is built into the architecture. AT&T's Global IP network is monitored by 8 different Security Operations Center (SOC) facilities located across the world. AT&T uses its security portfolio capabilities to protect their data centers and networks.

AT&T's ESInet provides six (6) geographically diverse and fully redundant facilities to increase resiliency and survivability in natural and man-made disaster scenarios, with scalable capacity capable of supporting more than twice the 9-1-1 busy hour call for the entire United States. AT&T has documented business continuity and restoration plans, including complex disaster and evacuation contingencies. The 24x7 operations center employs an Incident Handling process modeled on FEMA's Incident Command System, with notifications built into the process.

## Plan Narrative:

The ESInet is monitored 24x7x365 from a NOC with tier 2 and tier 3 technical resources dedicated to the AT&T ESInet. AT&T's 9-1-1 Resolution Center has dedicated public safety resources.

The AT&T ESInet provides a flexible routing platform that supports both ESN (tabular) and GIS (spatial) routing on the same Emergency Call Routing Function (ECRF).

The AT&T ESInet solution will interconnect to legacy selective routers as defined per NENA standards. AT&T provides redundant, public safety grade points of presence in each LATA for OSP ingress locations for Legacy Network Gateways (LNGs).

AT&T will interconnect to Legacy Selective Routers to transfer and/or receive calls with Automatic Number Identification (ANI) and Automatic Location Identification (ALI) information to the State's NGCS via legacy means through the Legacy Selective Router Gateway (LSRG). Interconnections will also allow legacy PSAPs served by legacy selective routers to serve as the abandonment route for PSAPs served by the AT&T ESInet solution.

Connectivity extends beyond the internal ESInet transport to external network and OSP interfaces. The ESInet supports both TDM and IP OSP ingress at geographically distributed Points of Interconnection (POI's). The ESInet supports standards-based protocol interfaces to external ESInets for call hand-off and call transfers. With pre-established connectivity capabilities, PSAPs on the ESInet have the ability to transfer calls to PSAPs on other ESInets or PSAPs that have not yet transitioned off legacy selective routers.

AT&T will coordinate getting the OSPs records into the AT&T ESInet database. AT&T will also jointly plan the interconnecting network with the OSP. Circuits will be ordered and implemented between the OSP and the ESInet POI. The ESInet POI may reside in an AT&T office or hub. AT&T will cooperatively test and turn up all trunking arrangements with the OSP. Traffic migrations from the legacy to new AT&T infrastructure will follow. Integrated Text-to-911 is supported by the ESInet.

AT&T is responsible for negotiating interconnection agreements and trunking arrangements with each service provider. Interconnection agreements will include the roles and responsibilities of the Parties related to the exchange of 9-1-1 traffic including but not limited to, split rate centers, tandem to tandem and IP connections.

GIS data is submitted to the AT&T ESInet via a web-based spatial interface (SI) portal. The portal provides secure GIS file transfer. 9-1-1 Authorities can maintain their local database schema and configure database changes using attribute field mapping tools.

The Spatial Interface (SI) validation engine logs errors and refers errors back to the originating 9-1-1 Authority in comprehensive reports that are retrieved in the 9-1-1 Enterprise Geospatial Database Management System (9-1-1EGDMS). Validation errors are corrected by the 9-1-1 Authority within their own GIS database. Updates are submitted and processed on an on-going basis.

AT&T's ESInet cyber security policies, standards, and guidelines are consistent with industry best practices as defined by International Organization for Standardization and Control Objectives for Information and related Technology. The AT&T ESInet is a highly secure, privately managed IP network providing IP based call routing services for next generation 9-1-1 call delivery. All inbound and outbound traffic interactions are with pre-authorized entities, utilize agreed upon protocols and traverse controlled access points. Call processing and real-time data delivery are protected through both physical and logical controls.

Sensitive data resides in trusted data centers that employ logical and physical access controls. All hardware and software elements deployed in a production environment go through stringent release management processes that incorporate thorough penetration scan testing. Corporate and development environments are separate from production and are not used in development or system test environments. Inter-zone traffic is restricted to only that of authorized personnel and the necessary protocols destinations used to support the management and applications of the ESInet with all other traffic implicitly denied by way of redundant and diverse Session Border Controllers (SBC) and stateful firewalls. A Network Operations Center (NOC) staffed 24 hours a day, seven days a week, 365 days a year to actively monitor and manage the AT&T ESInet end-to-end service is provided. When a potential or actual Customer-affecting issue is detected, the Incident Administration team is engaged by the NOC. The team uses established processes that are ISO 9001:2008-compliant for immediate escalation, notification, resolution, and reporting. All buildings, NOC and Data Center access are monitored by 24x7 security and access control systems.

There is no change to Woodford County ETSB's backup configuration, with VCOM in Pontiac remaining the backup PSAP. The ETSB intends to pursue an ESInet connection at our existing unmanned backup site in Roanoke, IL and a modification plan will be submitted in the future if the project continues.

Woodford County ETSB does not receive text to 911; It will work with the State 9-1-1 Administrator's Office on the rollout of statewide text to 9-1-1 utilizing the ESInet.

# FINANCIAL INFORMATION

Annual recurring 9-1-1 network costs prior to modification	\$ _____	\$ 0.00
Projected annual recurring 9-1-1 network costs after modification	\$ _____	\$ 0.00
Installation cost of the project	\$ _____	\$ 0.00
Anticipated annual revenues	\$ _____	\$ 0.00

# **FIVE YEAR STRATEGIC PLAN FOR MODIFIED PLAN**

(Provide a detailed summary of the proposed system's operation, including but not limited to, a five-year strategic plan for implementation of the modified 9-1-1 plan with financial projections)

Narrative:

N/A

# COMMUNITIES SERVED

Provide a list of all communities to be served by the proposed 9-1-1 System. Please include the name of the community and the official mailing address including street address, city and zip code.

*USE ADDITIONAL SHEETS AS NECESSARY*

City, Town or Village	Street Address, City, Zip Code
City of Eureka	111 W Court St, Eureka, 61530
City of El Paso	125 W Front St, El Paso, 61738
City of Minonk	674 N Chestnut St, Minonk, 61760
Village of Metamora	102 N Davenport, Metamora, 61548
Village of Germantown Hills	216 Holland Rd, Germantown Hills, 61548
Village of Spring Bay	407 Caroline St, Spring Bay, 61611
Village of Bayview Gardens	300 Garber Ln, Bayview Gardens, 61611
Village of Goodfield	114 S Eureka St, Goodfield, 61742
Village of Congerville	301 E Lincoln St, Congerville, 61729
Village of Washburn	134 N Jefferson St, Washburn, 61570
Village of Roanoke	102 N 6th St, Roanoke, 61561
Village of Kappa	107 1st South St, Kappa, 61738
Village of Secor	113 W Gilman St, Secor, 61771
Village of Panola	
Village of Benson	412 Front St, Benson, 61516
Village of Deer Creek	101 E First Ave, Deer Creek, 61733
Cazenovia	Unincorporated Community
Lowpoint	Unincorporated Community, 61545

## PARTICIPATING AGENCIES

Provide a list of public safety agencies (Police, Fire, EMS etc.) that are to be dispatched by the 9-1-1 System. Each Agencies land area(s) in square miles and estimated population which will have access to the proposed 9-1-1 System. Do not forget to include County Sheriff's jurisdiction and Illinois State Police Districts. Each agency that appears on this list should also have signed a call handling agreement.

9-1-1 Participant Agencies	Street Address, City, Zip Code	Administrative Telephone No.	Direct Dispatch	Transfer	Call Relay
Woodford County Sheriff	113 E Court St, Eureka, 61530	(309) 467-2375	X		
Woodford County EMA	303 S Main St, Roanoke, 61561	(309) 923-6611	X		
Woodford County Animal Ctrl	113 E Court St, Eureka, 61530	(309) 467-2375	X		
Woodford County Probation	105 E Court St, Eureka, 61530	(309) 467-3532	X		
Eureka Police Department	111 W Court St, Eureka, 61530	(309) 467-2541	X		
Eureka College Police	300 E College Ave, Eureka, 61530	(309) 467-6745	X		
Eureka-Goodfield Fire Prot Dis	211 N Main St, Eureka, 61530	(309) 467-6181	X		
Metamora Police Department	100 N Davenport St, Metamora, 61548	(309) 367-4115	X		
Metamora Fire Protection Dist	120 S Davenport St, Metamora, 61548	(309) 367-2640	X		
Emergency 116 Ambulance	120 S Davenport St, Metamora, 61548	(309) 367-2640	X		
Germantown Hills Fire Prot Dis	313 Prairie Ave, Germantown Hills, 61548	(309) 383-4890	X		
Spring Bay Fire Protection Dist	310 Missouri St, Spring Bay, 61611	(309) 822-0152	X		
Washburn Fire Protection Dist	207 E Walnut St, Washburn, 61570	(309) 248-7219	X		
Roanoke Fire Protection Distric	108 W Broad St, Roanoke, 61561	(309) 923-8351	X		
Benson Fire Protection District	416 Front St, Benson, 61516	(309) 394-2421	X		
Benson Ambulance	416 Front St, Benson, 61516	(309) 394-2421	X		
Minonk Fire Protection District	660 N Chestnut St, Minonk, 61760	(309) 432-2844	X		
Minonk Ambulance	636 Jefferson St, Minonk, 61760	(309) 432-2730	X		
El Paso Police Department	195 S Orange St, El Paso, 61738	(309) 527-5340	X		
El Paso Fire Protection District	700 S Fayette St, El Paso, 61738	(309) 527-6145	X		
El Paso Rescue Squad	700 S Fayette St, El Paso, 61738	(309) 527-6145	X		
Secor Fire Protection District	400 E Van Alsteine St, Secor, 61771	(309) 744-2220	X		
Congerville Fire Protection Dist	101 S Sharp St, Congerville, 61729	(309) 448-2384	X		
Goodfield Police Department	114 S Eureka St, Goodfield, 61742	(309) 965-2517	X		
Illinois State Police Troop 4	1265 Lourdes Rd, Metamora, 61548	(309) 383-2133		X	X



## ADJACENT AGENCIES LIST

Provide a list of public safety agencies and existing 9-1-1 Systems that are adjacent to the proposed system's boundaries. Each agency that appears on this list should also have signed a call handling agreement and/or aid outside jurisdictional boundaries.

AGENCY	STREET ADDRESS, CITY, ZIP CODE	TELEPHONE NUMBER
Tazewell County Sheriff	101 S Capitol St, Pekin, 61554	(309) 477-2250
Peoria County Sheriff	301 N Maxwell Rd, Peoria, 61604	(309) 697-8515
Marshall County Sheriff	520 6th St, Lacon, 61540	(309) 246-2115
LaSalle County Sheriff	707 E Etna Rd, Ottawa, 61350	(815) 433-2161
Livingston County Sheriff	844 W Lincoln St, Pontiac, 61764	(815) 844-2774
McLean County Sheriff	104 W Front St, Bloomington, 61701	(309) 888-5030
Deer Creek Police Department	101 W First Ave, Deer Creek, 61733	(309) 447-6265
Washington Fire Department	200 N Wilmor Rd, Washington, 61571	(309) 444-2511
Deer Creek Fire Protection District	402 E 1st Ave, Deer Creek, 61733	(309) 447-6490
Carlock Fire Protection District	200 Lincoln St N, Carlock, 61725	(309) 376-3221
Hudson Community Fire Protection District	502 N Broadway St, Hudson, 61748	(309) 726-1501
Gridley Fire Protection District	108 W 3rd St, Gridley, 61744	(309) 747-2823
Dana Fire Protection District	115 W Washington St, Dana, 61321	(815) 854-2299
Lacon-Sparland Fire Protection District	921 5th St, Lacon, 61540	(309) 246-4095
Toluca-Rutland Fire Protection District	322 W Railroad Ave, Toluca, 61369	(815) 452-2422
Danvers Fire Protection District	206 E Main St, Danvers, 61732	(309) 963-4812
Peoria Heights Police Department	1311 E Sciota Ave, Peoria Heights, 61616	(309) 688-3461
Peoria Heights Fire Department	4901 N Prospect Rd, Peoria Heights, 61616	(309) 673-4000
Chillicothe Police Department	823 N 2nd St, Chillicothe, 61523	(309) 274-2129
Chillicothe Community Fire Prot Dist	217 W Chestnut St, Chillicothe, 61523	(309) 274-3567
Peoria Police Department	600 SW Adams St, Peoria, 61602	(309) 673-4521
Peoria Fire Department	505 NE Monroe St, Peoria, 61603	(309) 494-8700
Fon du Lac Park District Police Dept	305 Springfield Rd, East Peoria, 61611	(309) 698-4700



# ATTACHMENTS

**Ordinance** - The local ordinance which created an ETSB prior to January 1, 2016.

**Contracts** - The contract for a new 9-1-1 system provider or for NG 9-1-1 service.

## **Intergovernmental Agreement**

**Back-up PSAP Agreement** - The agreement that establishes back-up service due to interruptions or overflow services between PSAPs.

**Network Diagram** - Diagram provided by the 9-1-1 System Provider. Re-evaluate P.01 grade of Service for cost savings and network efficiency.

# TEST PLAN DESCRIPTION

1) Description of test plan (back-up, overflow, failure, database).

See attached test plan for i3

2) List wireline exchanges to be tested.

Frontier: 309/ 376, 726, 448, 965, 744, 394, 443, 432, 248, 963, 304, 467, 923, 447, 444, 886

AT&T: 309/ 822, 427, 555, 694, 698, 699

El Paso Telephone: 309/ 527

Metamora Telephone: 309/ 383

Gridley Telephone: 309/ 747

Brightspeed: 309/ 246

3) List of wireless and VoIP Carriers to be tested.

AT&T

Verizon

Illinois Valley Cellular

T-Mobile

## Test Plan Description i3

TEST #	TEST CASE	TYPE
1	Trunk Verification (SIP)	Call Routing
2	Trunk Verification (SS7 Ingress from LSR)	Call Routing
3	Trunk Verification (SS7 Egress from AGC to LSR)	Call Routing
4	Perform reboot and validation on each AT&T network edge router at PSAP	Failover test
5	Perform WAN interface shutdown and validation on each AT&T network edge router at PSAP	Failover
6	Perform reboot and validation on each ATT Interface Router (between CPE and AT&T router)	
7	Wireline Call Routed to PSAP through AT&T ESInet	Equipment
8	Wireless Call Routed to PSAP through AT&T Esinet	Equipment
9	VOIP Call Routed to PSAP through AT&T ESInet	Equipment
10	CPE bids i3 Components	Call Handling
11	i3 Routing Fails, Routing via SRDB for Wireline call	Call Routing
12	i3 Routing via ECRF for Wireline call	Call Routing
13	i3 Transfer: Fixed Bridge Conferencing Confirmation (Call to IP PSAP then bridge to i3 PSAP if available – willing PSAP)	Call Handling
14	S/R Transfer: Selective Bridge Conferencing Confirmation, if used by the PSAP	Call Handling
15	S/R Transfer: Fixed Bridge Conferencing Confirmation	Call Handling
16	S/R Transfer: Fixed Bridge Conferencing Confirmation	Call Handling
17	PSTN Transfer: Fixed Bridge Conferencing Confirmation	Call Handling
18	Manual Transfer to valid local TN	Call Handling
19	Manual conference bridging to invalid unassigned number	Call Handling
20	Manual conference bridging to a valid 8YY number	Call Handling
21	Manual conference bridging to a valid Busy number	Call Handling
22	Manual conference bridging to a Multi-Party Conference	Call Handling
23	Manual conference bridging to a valid long-distance cell	Call Handling
24	Alternate Routing	Call Routing
25	Ring no Answer Timer	Call Routing
26	No position Logged In	Call Routing
27	Abandonment Routing	Call Routing
28	Un-Abandonment Routing	Call Routing
29	Abandonment Routing – PAD Testing (if PAD available)	Call Routing
30	Un-Abandonment Routing – PAD Testing (if PAD available)	Call Routing
31	Test line appearances that appear on each CPE	Call Processing
32	TTY call	Call Handling
33	TTY conference call	Call Handling