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



State of Illinois

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

911 GENERAL INFORMATION

DATE: 05/02/2023			
Type of Change:	Short Form Modification P	an	
Current System Name:	Population Served	Land Are	ea in Sq Miles
South West Cook County	49,132		13.9
List PSAPs:		Primary	Secondary
Proviso Central (Hillside)			
Justice		(
911 System Contact: Joseph Beckwith			
Street Address: 425 N. Hillside Ave			
City, State and Zip Code: Hillside, IL 60162			
Office Telephone: (708) 202-4381			
Cellular Telephone: (708) 846-0558			
Email:jbeckwith@hillside-il.org			
Wireless Coverage for Consolidated System:	Please check if applicable	:	
	X NG9-1-1 capable		
% Phase I compliant	Receive 9-1-1 Text		
	Pagaiya 9.1.1 Vida		

VERIFICATION

I, Joseph Beckwith	_, first being du	ıly sworn upon oath, depose and sa	ay that
I am Director	, of South West Co	ook County ETSB ; that I have re	ad the
foregoing plan by me subscribed and	know the conte	ents thereof; that said contents are	true in
substance and in fact, except as to th	ose matters stat	ted upon information and belief, and	d as to
those, I believe same to be true.			
		Joseph Beckwith - Director	2623
Subscribed and sworn to before me			
this 2nd day of May Covery Lernews	, 20 <u>23</u> .	SANDY LOZANO Official Seal Notary Public - State of Illia My Commission Expires Sep 3	nois , 2024
NOTARY PUBLIC, ILLINOIS			

9-1-1 SYSTEM PROVIDER LETTER OF INTENT

11/18/2022
(Date)
Craig Bennet
(9-1-1 System Provider Company Representative)
AT&T
(9-1-1 System Provider Company Name)
240 N. Meridian St. Room 1670
(Street Address)
Indianapolis, Indiana 46204
(City, State, Zip Code)
Dear Craig :

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,

(Name) Joseph Beckwith

(Title) Director

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.
- 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 Southwest Cook County ETSB 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 Southwest Cook 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.

Southwest Cook County ETSB plans on using the NG9-1-1 Text to 9-1-1 provided with the AT&T Esinet to be tested and work with Zetron through our vendor Mercury Systems.

Proviso Central Backup will continue to be Ike (Broadview) and Justice backup will remain Hickory Hills.

FINANCIAL INFORMATION

Annual recurring 9-1-1 network costs prior to modification	s_NA	\$ 0.00
Projected annual recurring 9-1-1 network costs after modification	\$_TBD	\$ 0.00
Installation cost of the project	\$TBD	\$ 0.00
Anticipated annual revenues	s NA	\$ 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)

arrative:	
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

OSE ADDITIONAL SHEETS AS NECESSAIT		
City, Town or Village	Street Address, City, Zip Code	
Village of Hillside	425 N. Hillside, Hillside IL 60162	
Village of Westchester	10300 Roosevelt Rd, Westchester, IL 60154	
Village of Berkeley	5819 Electric Ave, Berkeley, IL 60163	
Village of Justice	7800 Archer Rd. Justice, IL 60458	
Village of Willow Springs	1 Village Circle, Willow Springs, IL 60480	

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
Hillside Police Department	425 N. Hillside, Hillside IL 60162	(708) 449-6131	x		
Hillside Fire Department	425 N. Hillside, Hillside IL 60162	(708) 449-6131	x		
Berkeley Fire Department	5819 Electric Ave, Berkeley, IL 60163	(708) 449-6131	×		
Westchester Fire Department	10300 Roosevelt Rd, Westchester, IL 60154	(708) 449-6131	×		
Westchester Police	10300 Roosevelt Rd, Westchester, IL 60154	(708) 449-6131	×		
Justice Police	7800 Archer Rd. Justice, IL 60458	(708) 458-2192	×		
Willow Springs Police	1 Village Circle, Willow Springs, IL 60480	(708) 458-2192	x		
4.					

ADJACENT AGENCIES LIST

Provide a list of public safety agencies and existing 9-1-1Systems 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
Eisenhower 911 ETSB	2350 S. 25th Ave, Broadview, IL 60155	708-645-6550
-Village of Broadview	2350 S. 25th Ave, Broadview, IL 60155	708-345-6550
-Village of Maywood	40 Madison St, Maywood, IL 60153	708-345-6300
Proviso Leyden ETSB	395 W. Lake Street, Elmhurst, IL 60126	708-547-3500
-Village of Bellwood	3200 Washington Blvd, Bellwood, IL 60104	708-547-3528
llinois State Police	801 S. Seventh Street Suite 300, Springfield, IL 62703	847-294-4400
Cook County Sheriffs Office	9511 W. Harrison, Des Plaines, IL 60016	847-294-4733
-Cook County Forest Preserve		847-294-4733
-Village of Berkeley	5819 Electric Ave, Berkeley, IL 60163	708-449-8840
-Village of Lyons	4200 Lawndale Ave, Lyons, IL 60534	708-442-4500
DuPage County ETSB	421 N. County Farm Rd, Wheaton, IL 60187	630-550-7743
-DuPage Public Safety Communications DuComm	420 N. County Farm Rd, Wheaton, IL 60187	708-442-4500
-Addison Consolidated Dispatch Center	1471 W. Jeffrey Dr, Addison, IL 60101	(630) 833-9112
-DuPage County Sheriff	501 N. County Farm Rd, Wheaton, IL 60187	(630) 407-2400
DesPlaines Valley ETSB	6701 S. Archer Ave, Bedford Park, IL 60501	708-458-3388
-Village of Bedford Park	6701 S. Archer Ave, Bedford Park, IL 60501	708-458-3388
-City of Hickory Hills	8652 W. 95th St, Hickory Hills, IL 60457	708-598-4900
Dak Lawn Regional Emergency Communications	9446 Raymond Drive, Oak Lawn, IL 60453	708-422-8292
-Village of Bridgeview	7500 S. Oketo Ave, Bridgeview, IL 60455	708-458-2131
Cicero 911	4901 W. Cermak Rd, Cicero, IL 60804	708-652-2130
Stickney	6533 Pershing Rd, Stickney, IL 60402	708-788-2131
Chicago OEMC	121 N. LaSalle St, Chicago, IL 60602	312-746-9111
TACC	304 W. Burlington Ave, La Grange, IL 60526	(708) 352-2059
Vest Central Consolidated Communications	2359 S. DesPlaines Ave, North Riverside, IL 60546	708-447-9191
McCook	5000 Glencoe Ave, McCook, IL 60525	708-447-9030

CARRIER LISTING

(Wireline, Wireless, VoIP)

Provide a list of each carrier that will be involved in the proposed system.

(USE ADDITIONAL SHEETS AS NECESSARY)

***	(USE ADDITIONAL STILL TO AS NECESSART)	
CARRIERS	STREET ADDRESS, CITY, ZIP CODE	TELEPHONE NUMBER
ALLEGIANCE	707 W. Saratoga St, Shawnee, OK 74804	(800) 937-1397
AT&T	PO BOX 97061, Redmond, WA 98073	(800) 635-6840
CBEYOND	320 Interstate North Parkway Suite 500, Atlanta, GA 303	(866) 424-5100
CIMCO	1901 S Meyers Road, Oakbrook Terrace, IL 60181	(630) 691-8080
FOCAL	9641 82nd Ave, Edmonton AB Canada T6C0Z9	(877) 453-8353
FRONTIER	63 Stone St, Rochester, NY 14646	(877) 262-6822
GLOBAL COMM	461 S. Milpitas Blvd, Milpitas, CA 95035	(800) 589-1631
LEVEL 3	1025 Eldorado Blvd, Broomfield, CO 80021	(877) 253-8353
MCI	245 Lakeside Ct. #1013, St. Charles, IL 60174	(847) 970-8405
MCLEOD	8306 Highway 90A, Sugar Land, TX 77478	(800) 332-2385
MPOWER	515 S. Flower St, Los Angeles, CA 90071	(213) 213-3000
PAETEC	600 Willowbrook Office Park, Fairport, NY 14450	(585) 340-2500
TELEPORT	AT&T Subsidiary	
WORLD COM	22001 Loudon County Pkway, Ashburn, VA 20147	(800) 844-1001
XO COMM	13865 Sunrise Valley Dr, Herndon, VA 20171	(703) 547-2000
XFINITY COMCAST	1701 JFK Blvd, Philadelphia, PA 19103	(800) 934-6489

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.

CALL HANDLING AND AID OUTSIDE JURISDICTIONAL BOUNDARIES AGREEMENT

FOR 9-1-1 EMERGENCY COMMUNICATIONS

This agreement is made between South West Cook County Cons. Dispatch, and the Illinois State Police, Troop 3, for the purpose of effective handling and routing of 9-1-1 Emergency calls.

CALL HANDLING

Proviso Central PSAP and/or Justice PSAP receiving a call for emergency services in your jurisdiction shall dispatch the call in the following manner:

Primary: Phone / (847) 294-4843

Secondary: Phone / (847) 294-4844

South West Cook County Cons. Dispatch

AID OUTSIDE JURISDICTION BOUNDARIES

Once an emergency unit is dispatched in response to a request through the system, such unit shall render its service to the requesting party without regard to whether the unit is operating outside its normal jurisdictional boundaries.

The legislative intent is that 9-1-1 be used for emergency calls only. Therefore, all calls of an administrative or non-emergency nature shall be referred to your agency's published telephone number.

The PSAP Center agrees to keep all records, times, and places of all calls. All records will be available to all participants of the 9-1-1 System.

It shall be the responsibility of your agency to maintain the report of the call and the disposition of each call received.

All agreements, management, records, and service will be the responsibility of the 9-1-1 authority.

Illinois State Police, Troop 3

9-1-1 Authority	Public Safety Agency
gul	4011
Ву	By yR. Sh
Title: Director	Title: Bureau Chief - TSB
Date05/01/2023	Date 5/01/2023

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	Failover
	edge router at PSAP	
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	Call Handling
	bridge to i3 PSAP if available – willing PSAP)	
14	S/R Transfer: Selective Bridge Conferencing Confirmation, if used by the	Call Handling
	PSAP	
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